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NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2	Apr 08	"Ask CAS" for self-help around the clock
NEWS 3	Apr 09	BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS 4	Apr 09	ZDB will be removed from STN
NEWS 5	Apr 19	US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS 6	Apr 22	Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS 7	Apr 22	BIOSIS Gene Names now available in TOXCENTER
NEWS 8	Apr 22	Federal Research in Progress (FEDRIP) now available
NEWS 9	Jun 03	New e-mail delivery for search results now available
NEWS 10	Jun 10	MEDLINE Reload
NEWS 11	Jun 10	PCTFULL has been reloaded
NEWS 12	Jul 02	FOREGE no longer contains STANDARDS file segment
NEWS 13	Jul 22	USAN to be reloaded July 28, 2002; saved answer sets no longer valid
NEWS 14	Jul 29	Enhanced polymer searching in REGISTRY
NEWS 15	Jul 30	NETFIRST to be removed from STN
NEWS 16	Aug 08	CANCERLIT reload
NEWS 17	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 18	Aug 08	NTIS has been reloaded and enhanced
NEWS 19	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS 20	Aug 19	IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS 21	Aug 19	The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22	Aug 26	Sequence searching in REGISTRY enhanced
NEWS 23	Sep 03	JAPIO has been reloaded and enhanced
NEWS 24	Sep 16	Experimental properties added to the REGISTRY file
NEWS 25	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS 26	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
NEWS 27	Oct 21	EVENTLINE has been reloaded
NEWS 28	Oct 24	BEILSTEIN adds new search fields
NEWS 29	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
NEWS 30	Oct 25	MEDLINE SDI run of October 8, 2002
NEWS 31	Nov 18	DKILIT has been renamed APOLLIT
NEWS 32	Nov 25	More calculated properties added to REGISTRY
NEWS 33	Dec 02	TIBKAT will be removed from STN
NEWS 34	Dec 04	CSA files on STN
NEWS 35	Dec 17	PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS 36	Dec 17	TOXCENTER enhanced with additional content
NEWS 37	Dec 17	Adis Clinical Trials Insight now available on STN
NEWS 38	Dec 30	ISMEC no longer available
NEWS 39	Jan 13	Indexing added to some pre-1967 records in CA/CAPLUS
NEWS 40	Jan 21	NUTRACEUT offering one free connect hour in February 2003
NEWS 41	Jan 21	PHARMAML offering one free connect hour in February 2003

NEWS EXPRESS	January 6 CURRENT WINDOWS VERSION IS V6.01a, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002
NEWS HOURS	STN Operating Hours Plus Help Desk Availability

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NEWS INTER     General Internet Information
NEWS LOGIN     Welcome Banner and News Items
NEWS PHONE     Direct Dial and Telecommunication Network Access to STN
NEWS WWW       CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
specific topic.

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  * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * *



FILE 'HOME' ENTERED AT 07:20:48 ON 28 JAN 2003

=> fil reg
COST IN U.S. DOLLARS                                 SINCE FILE      TOTAL
                                                        ENTRY    SESSION
FULL ESTIMATED COST                                      0.21       0.21

FILE 'REGISTRY' ENTERED AT 07:20:56 ON 28 JAN 2003
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Property values tagged with IC are from the ZIC/VINITI data file
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STRUCTURE FILE UPDATES:   26 JAN 2003  HIGHEST RN 481631-75-8
DICTIONARY FILE UPDATES:  26 JAN 2003  HIGHEST RN 481631-75-8

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available.  See HELP
PROPERTIES for more information.  See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=>
Uploading 09994012.str

L1      STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1              STR
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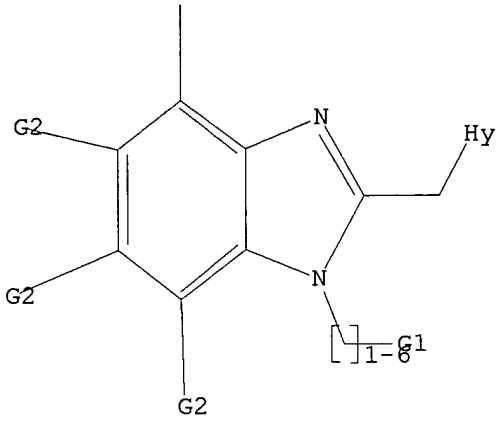

G1 C,H

G2 C,H,X

Structure attributes must be viewed using STN Express query preparation.

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=> s l1
SAMPLE SEARCH INITIATED 07:21:36 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   3263 TO ITERATE

 30.6% PROCESSED    1000 ITERATIONS                                  50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:        61836 TO    68684
PROJECTED ANSWERS:            3018 TO     4682

L2           50 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 07:21:41 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -  65441 TO ITERATE

100.0% PROCESSED   65441 ITERATIONS                              3958 ANSWERS
SEARCH TIME: 00.00.03

L3         3958 SEA SSS FUL L1

=>
Uploading 09994012.str

L4       STRUCTURE UPLOADED

=> d
L4 HAS NO ANSWERS
L4               STR
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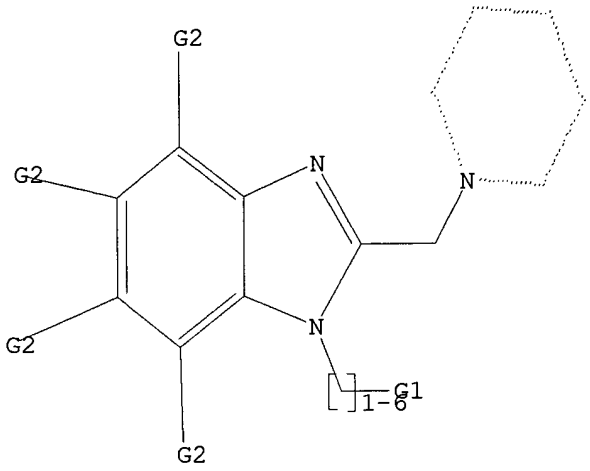

G1 C,H

G2 C,H,X

Structure attributes must be viewed using STN Express query preparation.

=> s l4 subset=l3 full
FULL SUBSET SEARCH INITIATED 07:23:15 FILE 'REGISTRY'
FULL SUBSET SCREEN SEARCH COMPLETED - 2095 TO ITERATE

100.0% PROCESSED 2095 ITERATIONS 134 ANSWERS
SEARCH TIME: 00.00.01

L5 134 SEA SUB=L3 SSS FUL L4

=> fil caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	184.25	184.46

FILE 'CAPLUS' ENTERED AT 07:23:18 ON 28 JAN 2003
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FILE COVERS 1907 - 28 Jan 2003 VOL 138 ISS 5
FILE LAST UPDATED: 27 Jan 2003 (20030127/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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=> s l5
L6          32 L5

=> d ibib abs hitstr 1-32
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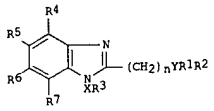
L6 ANSWER 1 OF 32 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:888718 CAPLUS
DOCUMENT NUMBER: 137:384842
TITLE: Benzimidazole compounds and antiviral uses thereof
INVENTOR(S): Lackey, John William; Kinder, Daniel S.; Tvermoes, Nicolai A.
PATENT ASSIGNEE(S): Trimeris, Inc., USA
SOURCE: PCT Int. Appl., 143 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002092575	A1	20021121	WO 2002-US14598	20020510

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2001-290038P P 20010511
OTHER SOURCE(S): MARPAT 137:384842
GI

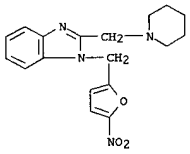


I

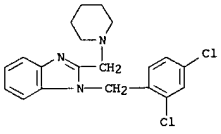
AB Title compds. I [R1, R2 = H, (un)substituted alkyl, cycloalkyl, heterocyclic, aryl, heteroaryl; R3 = H, halo, (un)substituted alkyl, Oh, alkoxy, aryl, heterocyclic, heteroaryl; R4-R7 = H, halo, (un)substituted alkyl, OH, alkoxy, aryl, heterocyclic, heteroaryl; X = bond, (un)substituted alkylene, C:N, CO, P, S; Y = N, P, O, S; when Y = O, S, R2 is absent; n = 0-4] were prepd. for use as virucides that inhibit membrane fusion assocd. events such as viral transmission, reduce viral load or otherwise treat viral infections, particularly that caused by Respiratory Syncytial Virus. Thus, I [R1 = cyclohexyl, R2 = CHMe2, Y = N, X = CH2, R3 = 2-quinolinyl, R4-R7 = H] had IC50 of 5.16 .mu.g/mL.

IT **475646-86-7P 475646-87-8P 475646-88-9P**
475646-90-3P 475646-91-4P 475646-92-5P
475646-93-6P 475646-94-7P 475646-95-8P
475646-96-9P 475646-97-0P 475646-98-1P
475648-16-9P 475648-17-0P 475648-19-2P

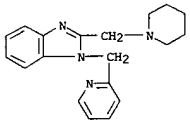
L6 ANSWER 1 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)
CN 1H-Benzimidazole, 1-[(5-nitro-2-furanyl)methyl]-2-(1-piperidinylmethyl)- (9CI) (CA INDEX NAME)



RN 475646-91-4 CAPLUS
CN 1H-Benzimidazole, 1-[(2,4-dichlorophenyl)methyl]-2-(1-piperidinylmethyl)- (9CI) (CA INDEX NAME)

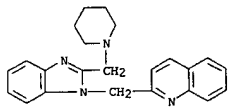


RN 475646-92-5 CAPLUS
CN 1H-Benzimidazole, 2-(1-piperidinylmethyl)-1-(2-pyridinylmethyl)- (9CI) (CA INDEX NAME)

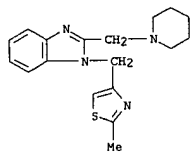


RN 475646-93-6 CAPLUS
CN 1H-Benzimidazole, 2-(1-piperidinylmethyl)-1-(3-pyridinylmethyl)- (9CI) (CA INDEX NAME)

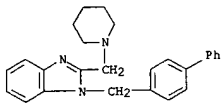
L6 ANSWER 1 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)
475648-20-5P 475648-24-9P 475648-25-0P
475648-26-1P 475648-27-2P 475648-30-7P
475648-35-2P 475648-36-3P 475648-40-9P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of benzimidazole derivs. as virucides for treating Respiratory Syncytial Virus infections)
RN 475646-86-7 CAPLUS
CN Quinoline, 2-[[2-(1-piperidinylmethyl)-1H-benzimidazol-1-yl]methyl]- (9CI) (CA INDEX NAME)



RN 475646-87-8 CAPLUS
CN 1H-Benzimidazole, 1-[(2-methyl-4-thiazolyl)methyl]-2-(1-piperidinylmethyl)- (9CI) (CA INDEX NAME)

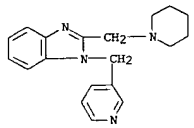


RN 475646-88-9 CAPLUS
CN 1H-Benzimidazole, 1-([1,1'-biphenyl]-4-ylmethyl)-2-(1-piperidinylmethyl)- (9CI) (CA INDEX NAME)

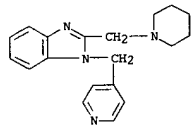


RN 475646-90-3 CAPLUS

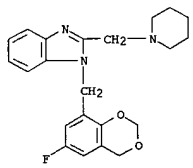
L6 ANSWER 1 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)



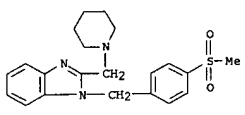
RN 475646-94-7 CAPLUS
CN 1H-Benzimidazole, 2-(1-piperidinylmethyl)-1-(4-pyridinylmethyl)- (9CI) (CA INDEX NAME)



RN 475646-95-8 CAPLUS
CN 1H-Benzimidazole, 1-[(6-fluoro-4H-1,3-benzodioxin-8-yl)methyl]-2-(1-piperidinylmethyl)- (9CI) (CA INDEX NAME)

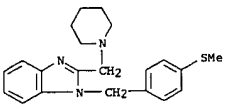


RN 475646-96-9 CAPLUS
CN 1H-Benzimidazole, 1-[[4-(methylsulfonyl)phenyl]methyl]-2-(1-piperidinylmethyl)- (9CI) (CA INDEX NAME)

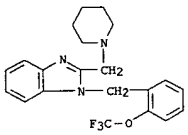


L6 ANSWER 1 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)

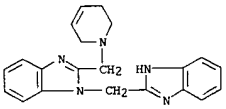
RN 475646-97-0 CAPLUS
CN 1H-Benzimidazole, 1-[[4-(methylthio)phenyl]methyl]-2-(1-piperidinylmethyl)- (9CI) (CA INDEX NAME)



RN 475646-98-1 CAPLUS
CN 1H-Benzimidazole, 2-(1-piperidinylmethyl)-1-[[2-(trifluoromethoxy)phenyl]methyl]- (9CI) (CA INDEX NAME)

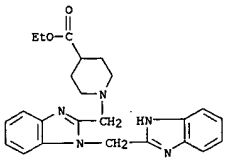


RN 475648-16-9 CAPLUS
CN 1H-Benzimidazole, 1-(1H-benzimidazol-2-ylmethyl)-2-[(3,6-dihydro-1(2H)-pyridinyl)methyl]- (9CI) (CA INDEX NAME)

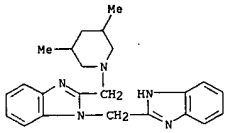


RN 475648-17-0 CAPLUS
CN 4-Piperidinecarboxylic acid, 1-[[1-(1H-benzimidazol-2-ylmethyl)-1H-benzimidazol-2-yl]methyl]-, ethyl ester (9CI) (CA INDEX NAME)

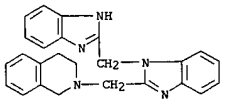
L6 ANSWER 1 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 475648-19-2 CAPLUS
CN 1H-Benzimidazole, 1-(1H-benzimidazol-2-ylmethyl)-2-[(3,5-dimethyl-1-piperidinyl)methyl]- (9CI) (CA INDEX NAME)

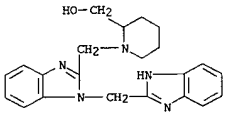


RN 475648-20-5 CAPLUS
CN Isoquinoline, 2-[[1-(1H-benzimidazol-2-ylmethyl)-1H-benzimidazol-2-yl]methyl]-1,2,3,4-tetrahydro- (9CI) (CA INDEX NAME)

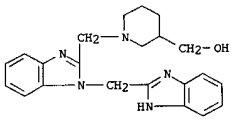


RN 475648-24-9 CAPLUS
CN 2-Piperidinemethanol, 1-[[1-(1H-benzimidazol-2-ylmethyl)-1H-benzimidazol-2-yl]methyl]- (9CI) (CA INDEX NAME)

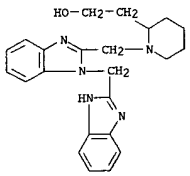
L6 ANSWER 1 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)



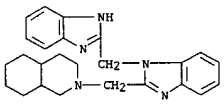
RN 475648-25-0 CAPLUS
CN 3-Piperidinemethanol, 1-[[1-(1H-benzimidazol-2-ylmethyl)-1H-benzimidazol-2-yl]methyl]- (9CI) (CA INDEX NAME)



RN 475648-26-1 CAPLUS
CN 2-Piperidineethanol, 1-[[1-(1H-benzimidazol-2-ylmethyl)-1H-benzimidazol-2-yl]methyl]- (9CI) (CA INDEX NAME)

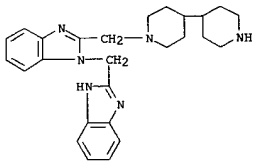


RN 475648-27-2 CAPLUS
CN Isoquinoline, 2-[[1-(1H-benzimidazol-2-ylmethyl)-1H-benzimidazol-2-yl]methyl]decahydro- (9CI) (CA INDEX NAME)

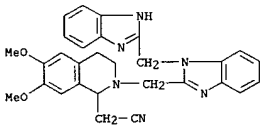


RN 475648-30-7 CAPLUS

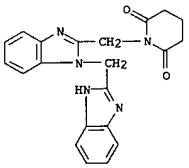
L6 ANSWER 1 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)
CN 1H-Benzimidazole, 1-(1H-benzimidazol-2-ylmethyl)-2-([4,4'-bipiperidin]-1-ylmethyl)- (9CI) (CA INDEX NAME)



RN 475648-35-2 CAPLUS
CN 1-Isoquinolineacetonitrile, 2-[[1-(1H-benzimidazol-2-ylmethyl)-1H-benzimidazol-2-yl]methyl]-1,2,3,4-tetrahydro-6,7-dimethoxy- (9CI) (CA INDEX NAME)

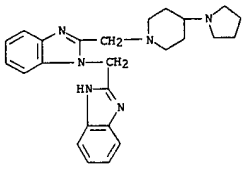


RN 475648-36-3 CAPLUS
CN 2,6-Piperidinedione, 1-[[1-(1H-benzimidazol-2-ylmethyl)-1H-benzimidazol-2-yl]methyl]- (9CI) (CA INDEX NAME)



RN 475648-40-9 CAPLUS
CN 1H-Benzimidazole, 1-(1H-benzimidazol-2-ylmethyl)-2-[[4-(1-pyrrolidinyl)-1-piperidinyl]methyl]- (9CI) (CA INDEX NAME)

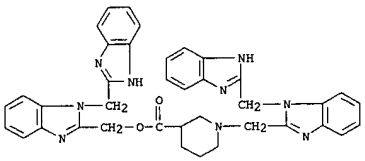
L6 ANSWER 1 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)



IT **475649-03-7P**
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of benzimidazole derivs. as virucides for treating Respiratory Syncytial Virus infections)

RN 475649-03-7 CAPLUS

CN 3-Piperidinecarboxylic acid, 1-[[1-(1H-benzimidazol-2-ylmethyl)-1H-benzimidazol-2-yl]methyl]-, [1-(1H-benzimidazol-2-ylmethyl)-1H-benzimidazol-2-yl]methyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

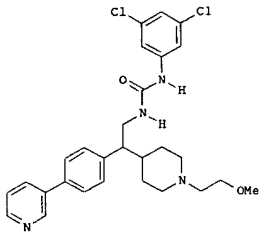
L6 ANSWER 2 OF 32 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:754356 CAPLUS
DOCUMENT NUMBER: 137:279095
TITLE: Preparation of N-[biaryl(piperidinyl)ethyl]-N'-arylureas and analogs as melanin-concentrating hormone receptor antagonists
INVENTOR(S): Clader, John W.; Josien, Hubert B.; Palani, Anandan; Chan, Tin-Yau
PATENT ASSIGNEE(S): Schering Corporation, USA
SOURCE: PCT Int. Appl., 129 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002076947	A1	20021003	WO 2002-US8338	20020320

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KR, KZ, LC, LK, LR, LT, LU, LV, MA, MD, MG, MK, MN, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UZ, VN, YU, ZA, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2001-277584P P 20010321
OTHER SOURCE(S): MARPAT 137:279095
GI



II

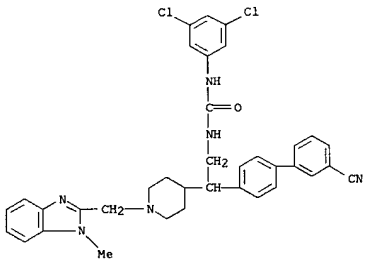
AB Title compds., e.g., RZCH(Z1R1)CH2Z2CONHR2 (Z = piperidine-1,4-diyl, Z1 = 1,4-phenylene)[I; R = H, (cyclo)alkyl, alkylsulfonyl, etc.; R1 = (un)substituted Ph or 3-pyridinyl; R2 = halophenyl, (un)substituted

L6 ANSWER 2 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)
pyridinyl, etc.; Z2 = O or NH] were prepd. Thus, BocZCH(Z1Br)CH2OH (prepn. given) was aminated and the product condensed with 3,5-C12C6H3NCO to give BocZCH(Z2Br)CH2NHCONHC6H3Cl3-3,5 which was converted in 3 steps to title compd. II. Data for biol. activity of title compds. were given.

IT **464158-82-5P**
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of N-[biaryl(piperidinyl)ethyl]-N'-arylureas and analogs as melanin-concg. hormone receptor antagonists)

RN 464158-82-5 CAPLUS

CN Urea, N-[2-(3'-cyano[1,1'-biphenyl]-4-yl)-2-[1-[(1-methyl-1H-benzimidazol-2-yl)methyl]-4-piperidinyl]ethyl]-N'-(3,5-dichlorophenyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

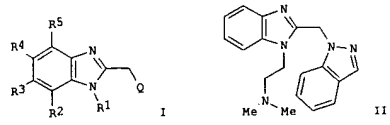
L6 ANSWER 3 OF 32 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:556140 CAPLUS
DOCUMENT NUMBER: 137:125159
TITLE: Preparation and antiviral activity of heterocyclic substituted 2-methylbenzimidazole antiviral agents
INVENTOR(S): Yu, Kuo-Long; Civiello, Rita L.; Combrink, Keith D.; Gulgeze, Hatice Belgin; Sin, Ny; Wang, Xiangdong; Meanwell, Nicholas; Venables, Brian Lee; Zhang, Yi; Pearce, Bradley C.; Yin, Zhiwei; Thuring, Jan Willem
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 89 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002099208	A1	20020725	US 2001-994012	20011116
WO 2002062290	A2	20020815	WO 2001-US45149	20011120
WO 2002062290	A3	20021121		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2000-257139P P 20001220
OTHER SOURCE(S): MARPAT 137:125159
GI

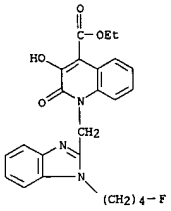


I II

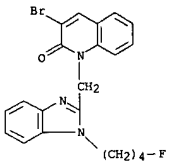
AB The title compds. [I; R1 = (CRaRb)nX; Ra, Rb = independently H, C1-6 (un)substituted alkyl; X = H, C1-6 (un)substituted alkyl; n = 1-6; R2, R5 = independently H or halogen; R3, R4 = independently H, halogen, C1-6 (un)substituted alkyl; Q = heterocyclic group], useful in the treatment of viral infections, more particularly, for the treatment of respiratory syncytial virus infection, were prepd. E.g., a four-step synthesis of II, starting with 2-(chloromethyl)benzimidazole, was given. The antiviral activity of these compds. against respiratory syncytial virus (RSV) was detd. in HEp-2 (ATCC CCL 23) cells. The title compds. I, disclosed herein, show antiviral activity with EC50s between 50 .mu.M and 0.001 .mu.M.

IT **443987-39-1P 443987-43-7P 443987-45-9P**
443987-47-1P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic

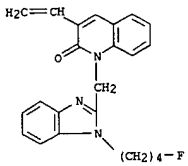
L6 ANSWER 3 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)
preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(prepn. and use of heterocyclic substituted 2-methyl-benzimidazole antiviral agents)
RN 443987-39-1 CAPLUS
CN 4-Quinolinecarboxylic acid, 1-[[1-(4-fluorobutyl)-1H-benzimidazol-2-yl]methyl]-1,2-dihydro-3-hydroxy-2-oxo-, ethyl ester (9CI) (CA INDEX NAME)



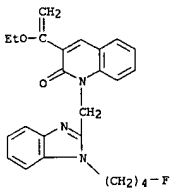
RN 443987-43-7 CAPLUS
CN 2(1H)-Quinolinone, 3-bromo-1-[[1-(4-fluorobutyl)-1H-benzimidazol-2-yl]methyl]- (9CI) (CA INDEX NAME)



RN 443987-45-9 CAPLUS
CN 2(1H)-Quinolinone, 3-ethenyl-1-[[1-(4-fluorobutyl)-1H-benzimidazol-2-yl]methyl]- (9CI) (CA INDEX NAME)

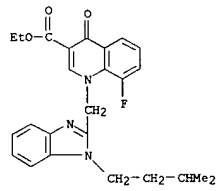


RN 443987-47-1 CAPLUS
CN 2(1H)-Quinolinone, 3-(1-ethoxyethenyl)-1-[[1-(4-fluorobutyl)-1H-benzimidazol-2-yl]methyl]- (9CI) (CA INDEX NAME)

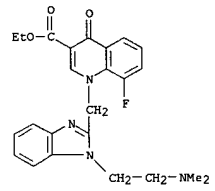


IT **443987-36-8P 443987-37-9P 443987-38-0P**
443987-40-4P 443987-41-5P 443987-42-6P
443987-44-8P 443987-46-0P 443987-48-2P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. and use of heterocyclic substituted 2-methyl-benzimidazole antiviral agents)
RN 443987-36-8 CAPLUS
CN 3-Quinolinecarboxylic acid, 8-fluoro-1,4-dihydro-1-[[1-(3-methylbutyl)-1H-benzimidazol-2-yl]methyl]-4-oxo-, ethyl ester (9CI) (CA INDEX NAME)

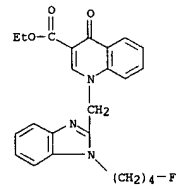
L6 ANSWER 3 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 443987-37-9 CAPLUS
CN 3-Quinolinecarboxylic acid, 1-[[1-[2-(dimethylamino)ethyl]-1H-benzimidazol-2-yl]methyl]-8-fluoro-1,4-dihydro-4-oxo-, ethyl ester (9CI) (CA INDEX NAME)

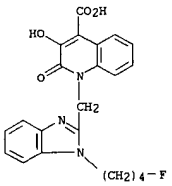


RN 443987-38-0 CAPLUS
CN 3-Quinolinecarboxylic acid, 1-[[1-(4-fluorobutyl)-1H-benzimidazol-2-yl]methyl]-1,4-dihydro-4-oxo-, ethyl ester (9CI) (CA INDEX NAME)

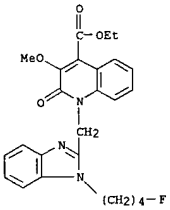


RN 443987-40-4 CAPLUS
CN 4-Quinolinecarboxylic acid, 1-[[1-(4-fluorobutyl)-1H-benzimidazol-2-yl]methyl]-1,2-dihydro-3-hydroxy-2-oxo- (9CI) (CA INDEX NAME)

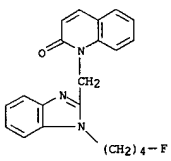
L6 ANSWER 3 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 443987-41-5 CAPLUS
CN 4-Quinolinecarboxylic acid, 1-[[1-(4-fluorobutyl)-1H-benzimidazol-2-yl]methyl]-1,2-dihydro-3-methoxy-2-oxo-, ethyl ester (9CI) (CA INDEX NAME)

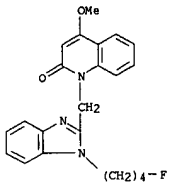


RN 443987-42-6 CAPLUS
CN 2(1H)-Quinolinone, 1-[[1-(4-fluorobutyl)-1H-benzimidazol-2-yl]methyl]- (9CI) (CA INDEX NAME)

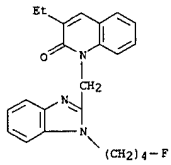


RN 443987-44-8 CAPLUS
CN 2(1H)-Quinolinone, 1-[[1-(4-fluorobutyl)-1H-benzimidazol-2-yl]methyl]-4-

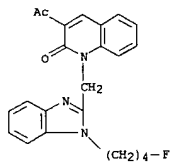
L6 ANSWER 3 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)
methoxy- (9CI) (CA INDEX NAME)



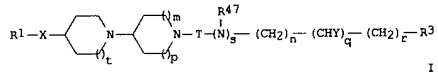
RN 443987-46-0 CAPLUS
CN 2(1H)-Quinolinone, 3-ethyl-1-[[1-(4-fluorobutyl)-1H-benzimidazol-2-yl]methyl]- (9CI) (CA INDEX NAME)



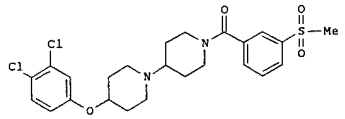
RN 443987-48-2 CAPLUS
CN 2(1H)-Quinolinone, 3-acetyl-1-[[1-(4-fluorobutyl)-1H-benzimidazol-2-yl]methyl]- (9CI) (CA INDEX NAME)



L6 ANSWER 4 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)



I



II

AB Title compds. I [q, s, t = 0 - 1; n, r = 0 - 5; m, p = 0 - 2; X = CH, C(O), O, S, S(O), S(O), N-; provided that when m and p are both 1 then X is not CH; Y = NHR2, OH; T = C(O), C(S), S(O), CH2; R1 = H, alkyl, aryl, heterocyclyl; R2, R47 = H, alkyl, aryl-alkyl, CO-alkyl; R3 = alkyl, alkenyl, cycloalkyl, cycloalkenyl, aryl, heterocyclyl, thioaryl, thioheterocyclyl] were prepd. Examples include: data for over 600 compds., 4 solid oral dosage and 1 parenteral (general) formulations, a bioassay for Ca2+ flux, human eosinophil chemotaxis and H1 antagonism. E.g., 4-(3,4-dichlorophenoxy)piperidine was alkylated with 1-(tert-butoxycarbonyl)-4-piperidone (1,2-dichloroethane, NaBH(OAc)3, HOAc, 18 h, room temp.) to give an intermediate [1,4']bipiperidine. This intermediate was deprotected (DCM, TFA, 4 h, room temp.) and the resulting bipiperidine condensed with 3-methanesulfonylbenzoic acid (THF, PYBROP, (i-Pr)2NEt, 18 h, room temp.) to give example compd. II isolated as the acetate salt. I are used in the treatment of a chemokine (such as CCR3) or H1 mediated disease state.

IT **367496-01-3P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(drug; synthesis of substituted bipiperidines and use as H1 antagonists)

RN 367496-01-3 CAPLUS
CN 1H-Benzimidazole, 2-[[4-(3,4-dichlorophenoxy)[1,4'-bipiperidin]-1'-yl]methyl]-1-methyl- (9CI) (CA INDEX NAME)

L6 ANSWER 4 OF 32 CAPLUS COPYRIGHT 2003 ACS

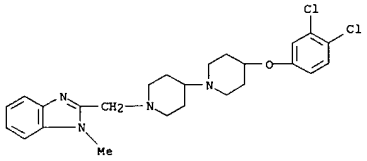
ACCESSION NUMBER: 2001:762989 CAPLUS
DOCUMENT NUMBER: 135:318419
TITLE: Synthesis of substituted bipiperidines and their use as H1 antagonists
INVENTOR(S): Lawrence, Louise; Rigby, Aaron; Sanganee, Hitesh; Springthorpe, Brian
PATENT ASSIGNEE(S): Astrazeneca AB, Swed.
SOURCE: PCT Int. Appl., 160 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001077101	A1	20011018	WO 2001-SE751	20010405
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1274701	A1	20030115	EP 2001-920053	20010405
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2002077337	A1	20020620	US 2001-827488	20010406

PRIORITY APPLN. INFO.:
GB 2000-8626 A 20000408
GB 2000-19111 A 20000803
SE 2000-3664 A 20001011
WO 2001-SE751 W 20010405

OTHER SOURCE(S): MARPAT 135:318419
GI

L6 ANSWER 4 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)



REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

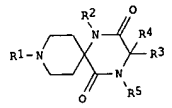
L6 ANSWER 5 OF 32 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:416939 CAPLUS
DOCUMENT NUMBER: 135:46203
TITLE: Preparation and effect of triazaspiro[5.5]undecane derivatives as active ingredients in remedy for inflammatory diseases
INVENTOR(S): Habashita, Hiromu; Hamano, Shinichi; Shibayam, Shiro; Takaoka, Yoshikazu
PATENT ASSIGNEE(S): Ono Pharmaceutical Co., Ltd., Japan
SOURCE: PCT Int. Appl., 1149 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001040227	A1	20010607	WO 2000-JP8517	20001201
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 2001016506	A5	20010612	AU 2001-16506	20001201
EP 1236726	A1	20020904	EP 2000-979050	20001201
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
NO 2002002609	A	20020726	NO 2002-2609	20020531

PRIORITY APPLN. INFO.: JP 1999-344967 A 19991203
JP 2000-18673 A 20000127
JP 2000-27968 A 20000204
JP 2000-147882 A 20000519
WO 2000-JP8517 W 20001201

OTHER SOURCE(S): MARPAT 135:46203
GI



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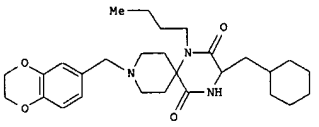


II

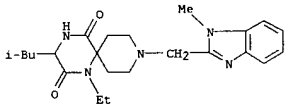
AB Title compds. [I; R1 = H, aryl, arylalkyloxycarbonyl, alkenyloxycarbonyl, heterocyclylalkyl, alkyl, alkenyl, alkynyl; R2 = alkyl, alkynyl; R3 = H; R4 = alkyl; R5 = H, alkyl], stereoisomers, quaternary ammonium salts thereof, N-oxides thereof and nontoxic salts thereof, are prepd. via solid phase synthesis using divinylbenzene-polystyrene or divinylbenzene-Rink resin. Title compds. I, having controlling effects of chemokines/chemokine receptors, are useful in preventing and/or treating various inflammatory diseases, asthma, atopic dermatitis, urticaria, allergic diseases, nephritis, nephropathy, hepatitis, arthritis, rheumatoid arthritis, etc. Thus, the title compd. II.cntdot.HCl was prepd. and biol. tested.

IT **343835-21-2P 343836-00-0P 343836-84-0P**
343839-93-0P 343840-80-2P 343841-73-6P
343842-66-0P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. and effect of triazaspiro[5.5]undecane derivs. as active ingredients in inflammatory disease therapy)

RN 343835-21-2 CAPLUS
CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-ethyl-9-[(1-methyl-1H-benzimidazol-2-yl)methyl]-3-(2-methylpropyl)-, monoacetate (9CI) (CA INDEX NAME)

CM 1

CRN 343835-20-1
CMF C23 H33 N5 O2



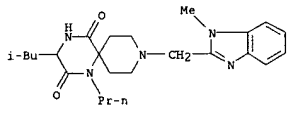
CM 2

CRN 64-19-7
CMF C2 H4 O2

RN 343836-00-0 CAPLUS
CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 9-[(1-methyl-1H-benzimidazol-2-yl)methyl]-3-(2-methylpropyl)-1-propyl-, monoacetate (9CI) (CA INDEX NAME)

CM 1

CRN 343835-99-4
CMF C24 H35 N5 O2



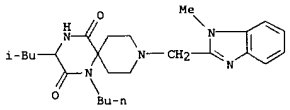
CM 2

CRN 64-19-7
CMF C2 H4 O2

RN 343836-84-0 CAPLUS
CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-9-[(1-methyl-1H-benzimidazol-2-yl)methyl]-3-(2-methylpropyl)-, monoacetate (9CI) (CA INDEX NAME)

CM 1

CRN 343836-83-9
CMF C25 H37 N5 O2



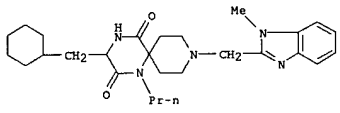
CM 2

CRN 64-19-7
CMF C2 H4 O2

RN 343839-93-0 CAPLUS
CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 3-(cyclohexylmethyl)-9-[(1-methyl-1H-benzimidazol-2-yl)methyl]-1-propyl-, monoacetate (9CI) (CA INDEX NAME)

CM 1

CRN 343839-92-9
CMF C27 H39 N5 O2



CM 2

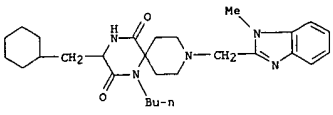
CRN 64-19-7
CMF C2 H4 O2

L6 ANSWER 5 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)

RN 343840-80-2 CAPLUS
CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 1-butyl-3-(cyclohexylmethyl)-9-[(1-methyl-1H-benzimidazol-2-yl)methyl]-, monoacetate (9CI) (CA INDEX NAME)

CM 1

CRN 343840-79-9
CMF C28 H41 N5 O2



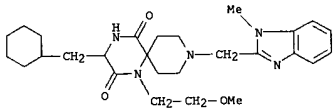
CM 2

CRN 64-19-7
CMF C2 H4 O2

RN 343841-73-6 CAPLUS
CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 3-(cyclohexylmethyl)-1-(2-methoxyethyl)-9-[(1-methyl-1H-benzimidazol-2-yl)methyl]-, monoacetate (9CI) (CA INDEX NAME)

CM 1

CRN 343841-72-5
CMF C27 H39 N5 O3



L6 ANSWER 5 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)

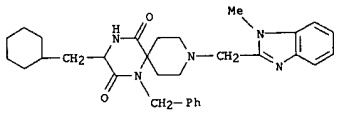
CM 2

CRN 64-19-7
CMF C2 H4 O2

RN 343842-66-0 CAPLUS
CN 1,4,9-Triazaspiro[5.5]undecane-2,5-dione, 3-(cyclohexylmethyl)-9-[(1-methyl-1H-benzimidazol-2-yl)methyl]-1-(phenylmethyl)-, monoacetate (9CI) (CA INDEX NAME)

CM 1

CRN 343842-65-9
CMF C31 H39 N5 O2



CM 2

CRN 64-19-7
CMF C2 H4 O2

REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 6 OF 32 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:338355 CAPLUS
DOCUMENT NUMBER: 134:340509
TITLE: Preparation of 8-azabicyclo[3.2.1]octane NMDA/NR2B antagonists
INVENTOR(S): Thompson, Wayne; Claremon, David A.; Munson, Peter M.; Phillips, Brian
PATENT ASSIGNEE(S): Merck + Co., Inc., USA
SOURCE: PCT Int. Appl., 77 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001032179	A1	20010510	WO 2000-US29479	20001026
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6432976	B1	20020813	US 2000-696503	20001025
EP 1244450	A1	20021002	EP 2000-979131	20001026
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
PRIORITY APPLN. INFO.:			US 1999-162718P	P 19991029
			WO 2000-US29479	W 20001026
OTHER SOURCE(S):			MARPAT 134:340509	

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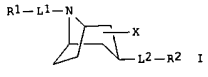
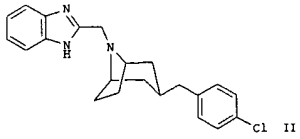




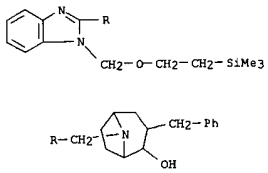
AB The title compds., commonly known as tropanes, (I) [wherein R1 = (un)substituted 2-benzimidazole, imidazole, imidazopyridine, indole,

L6 ANSWER 6 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)

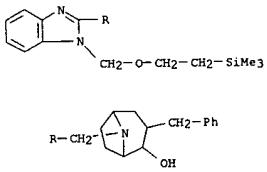
quinazoline, purine, benzoxazolone, or phenol; R2 = Ph, optionally substituted with 1-5 substituents selected from Cl, F, Br, alkyl, CF3, OH, or CO2H; L1 and L2 = independently (cyclo)alkyl, alkenyl, alkynyl, alkoxy, aminoalkyl, hydroxyalkyl, or (amino)carbonyl; X = OH, NH2, (di)alkylamino, alkyl, ester, carbamate, carbonate, or ether] were prepd. as effective NMDA NR2B glutamate receptor antagonists. For example, addn. of di-Et 4-chlorobenzylphosphonate to N-carbethoxy-4-tropinone to give the benzylidene, redn. using Pt/C, N-deprotection using HBr in AcOH, and reductive addn. of 1-(trimethylsilylethoxymethyl)-1H-benzimidazole-2-carbaldehyde (2-step prepn. given) using NaBH(OAc)3 in ClCH2CH2Cl afforded exo-II. Exptl. protocols for assessing the inhibition of NR1A/2B NMDA receptor activation (FLIPR assay) and detg. the apparent dissocn. consts. against the human NR1A/NR2B receptor (binding assay) are given (no data). I are useful for relieving pain and treating migraine, depression, anxiety, schizophrenia, Parkinson's disease, or stroke (no data).

IT **338733-44-1P 338733-48-5P 338733-53-2P**
338733-57-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; prepn. of (benzimidazolylalkyl)tropane NMDA/NR2B antagonists for treatment of pain)

RN 338733-44-1 CAPLUS
CN 8-Azabicyclo[3.2.1]octan-2-ol, 3-(phenylmethyl)-8-[[1-[[2-(trimethylsilyl)ethoxy]methyl]-1H-benzimidazol-2-yl]methyl]-, (1R,2R,3S,5S)-rel- (9CI) (CA INDEX NAME)

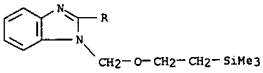


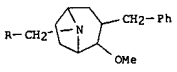
RN 338733-48-5 CAPLUS
CN 8-Azabicyclo[3.2.1]octan-2-ol, 3-(phenylmethyl)-8-[[1-[[2-(trimethylsilyl)ethoxy]methyl]-1H-benzimidazol-2-yl]methyl]-, (1R,2S,3S,5S)-rel- (9CI) (CA INDEX NAME)



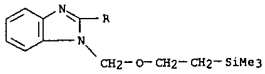
L6 ANSWER 6 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)

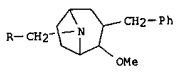
RN 338733-53-2 CAPLUS
CN 8-Azabicyclo[3.2.1]octane, 2-methoxy-3-(phenylmethyl)-8-[[1-[[2-(trimethylsilyl)ethoxy]methyl]-1H-benzimidazol-2-yl]methyl]-, (1R,2R,3S,5S)-rel- (9CI) (CA INDEX NAME)





RN 338733-57-6 CAPLUS
CN 8-Azabicyclo[3.2.1]octane, 2-methoxy-3-(phenylmethyl)-8-[[1-[[2-(trimethylsilyl)ethoxy]methyl]-1H-benzimidazol-2-yl]methyl]-, (1R,2S,3S,5S)-rel- (9CI) (CA INDEX NAME)

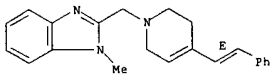




REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 7 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)
CN 1H-Benzimidazole, 2-[[3,6-dihydro-4-[(1E)-2-phenylethenyl]-1(2H)-pyridinyl]methyl]-1-methyl- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



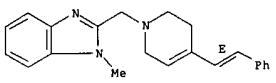
L6 ANSWER 7 OF 32 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:319710 CAPLUS
DOCUMENT NUMBER: 134:320873
TITLE: Method to treat pain and other conditions using benzimidazole NMDA/NR2B antagonists
INVENTOR(S): Kulagowski, Janusz Jozef
PATENT ASSIGNEE(S): Merck Sharp & Dohme Ltd., UK
SOURCE: PCT Int. Appl., 22 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001030330	A2	20010503	WO 2000-GB4150	20001027
WO 2001030330	A3	20020523		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6362196	B1	20020326	US 2000-698422	20001027
EP 1235572	A2	20020904	EP 2000-972979	20001027
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				

PRIORITY APPLN. INFO.: US 1999-162546P P 19991029
WO 2000-GB4150 W 20001027

OTHER SOURCE(S): MARPAT 134:320873
AB Substituted benzimidazole derivs. that are NMDA NR2B antagonists are used to treat pain, migraine, depression, anxiety, schizophrenia, Parkinson's disease, or stroke.
IT **336608-46-9 336608-46-9D**, prodrug derivs.
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(benzimidazole NMDA/NR2B antagonists for treatment of pain and other conditions)
RN 336608-46-9 CAPLUS
CN 1H-Benzimidazole, 2-[[3,6-dihydro-4-[(1E)-2-phenylethenyl]-1(2H)-pyridinyl]methyl]-1-methyl- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



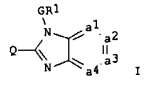
RN 336608-46-9 CAPLUS

L6 ANSWER 8 OF 32 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:12444 CAPLUS
DOCUMENT NUMBER: 134:86248
TITLE: Preparation of benzimidazoles as respiratory syncytial virus replication inhibitors.
INVENTOR(S): Janssens, Frans Eduard; Meersman, Kathleen Petrus Marie-Jose; Sommen, Francois Maria; Guillemont, Jerome Emile Georges; Lacrampe, Jean Fernand Armand; Andries, Koenraad Jozef Lodewijk Marcel
PATENT ASSIGNEE(S): Janssen Pharmaceutica N.V., Belg.
SOURCE: PCT Int. Appl., 119 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001000611	A1	20010104	WO 2000-EP5676	20000620
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
BR 2000012054	A	20020319	BR 2000-12054	20000620
EP 1196408	A1	20020417	EP 2000-943841	20000620
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
NO 2001006368	A	20020228	NO 2001-6368	20011227

PRIORITY APPLN. INFO.: EP 1999-202087 A 19990628
EP 2000-200452 A 20000211
WO 2000-EP5676 W 20000620

OTHER SOURCE(S): MARPAT 134:86248
GI



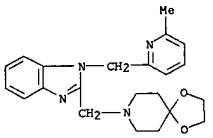
I

AB Use of title compds. [I; a1:a2a3:a4 = (substituted) CH:CHCH:CH, N:CHCH:CH, CH:N:CH:CH, CH:CHN:CH, CH:CHCH:N; Q = R2R4NAX1, R2R4NCOAX1, specified (heterocyclic) ring, etc.; A = alkylene; R2 = H, CHO, alkylcarbonyl, pyrrolidinyl, piperidinyl, homopiperidinyl, aminocycloalkyl, etc.; R4 = H, alkyl, aralkyl; G = bond, alkanediyl; R1 = (substituted) piperidinyl, piperazinyl, pyridyl, pyrazinyl, pyridazinyl, pyrrolyl, furyl, thienyl, oxazolyl, thiazolyl, imidazolyl, pyrazolyl, etc.] for treatment of viral infection is claimed. Thus, 1,1-dimethylethyl 4-[[1-[[3,5-dihydro-3,3-dimethyl-9-(phenylmethoxy)-1H-1,3-dioxepino[5,6-c]pyridin-2-yl]methyl]-1H-benzimidazol-2-yl]amino]-1-piperidinecarboxylate was refluxed 6 h in 10N HCl to give 4-[[1-[[3,5-dihydro-3,3-dimethyl-9-(phenylmethoxy)-1H-1,3-

L6 ANSWER 8 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)
dioxepino[5,6-c]pyridin-2-yl]methyl]-1H-benzimidazol-2-yl]amino]piperidine. Tested I inhibited respiratory syncytial virus replication with IC50 = 0.00013-2.5119 .mu.M.

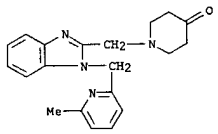
IT **317847-67-9**
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of benzimidazoles as respiratory syncytial virus replication inhibitors)

RN 317847-67-9 CAPLUS
CN 1,4-Dioxa-8-azaspiro[4.5]decane, 8-[[1-[(6-methyl-2-pyridinyl)methyl]-1H-benzimidazol-2-yl]methyl]- (9CI) (CA INDEX NAME)



IT **317847-52-2P 317847-53-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of benzimidazoles as respiratory syncytial virus replication inhibitors)

RN 317847-52-2 CAPLUS
CN 4-Piperidinone, 1-[[1-[(6-methyl-2-pyridinyl)methyl]-1H-benzimidazol-2-yl]methyl]- (9CI) (CA INDEX NAME)



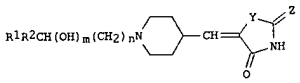
RN 317847-53-3 CAPLUS
CN 1,2-Ethanediamine, N'-[1-[[1-[(6-methyl-2-pyridinyl)methyl]-1H-benzimidazol-2-yl]methyl]-4-piperidinyl]-N,N-bis(phenylmethyl)- (9CI) (CA INDEX NAME)

L6 ANSWER 9 OF 32 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1997:127364 CAPLUS
DOCUMENT NUMBER: 126:171592
TITLE: Preparation and formulation of imidazolidine and thiazolidine derivatives as allergy inhibitors
INVENTOR(S): Tagami, Yoshihiro; Yamaguchi, Toshiro; Kubo, Junichi; Shimozono, Juji; Yonemura, Keiji; Mukai, Mizue
PATENT ASSIGNEE(S): Hisamitsu Pharmaceutical Co, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 25 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09003067	A2	19970107	JP 1995-173009	19950616
PRIORITY APPLN. INFO.:			JP 1995-173009	19950616

OTHER SOURCE(S): MARPAT 126:171592
GI



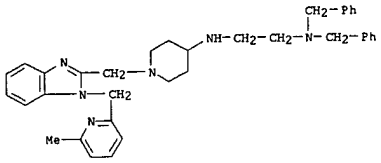
I

AB The title compds. I [R1 = H, alkyl, etc.; R2 = (un)substituted Ph, etc.; m = 0 or 1; n = 0 or 3; Y = S, etc.; Z = S, O, etc.] are prepd. I are effective against both type I and IV allergies. The title compds. at 10 mg/kg orally gave 4.1% to 78.5% inhibition of type I allergic reaction in rats.

IT **186455-93-6P 186455-94-7P 186455-95-8P**
186455-96-9P 186455-97-0P 186455-98-1P
186455-99-2P 186456-00-8P 186456-01-9P
186456-02-0P 186456-03-1P 186456-04-2P
186456-05-3P 186456-06-4P 186456-07-5P
186456-08-6P 186456-09-7P 186456-10-0P
186456-11-1P 186456-12-2P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of imidazolidine and thiazolidine derivs. as allergy inhibitors)

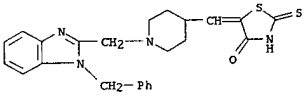
RN 186455-93-6 CAPLUS
CN 4-Thiazolidinone, 5-[[1-[[1-(phenylmethyl)-1H-benzimidazol-2-yl]methyl]-4-piperidinyl]methylene]-2-thioxo- (9CI) (CA INDEX NAME)

L6 ANSWER 8 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)

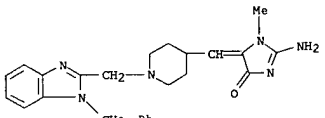


REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

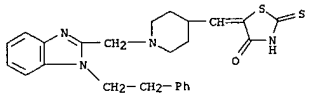
L6 ANSWER 9 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)



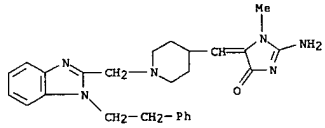
RN 186455-94-7 CAPLUS
CN 4H-Imidazol-4-one, 2-amino-1,5-dihydro-1-methyl-5-[[1-[[1-(phenylmethyl)-1H-benzimidazol-2-yl]methyl]-4-piperidinyl]methylene]- (9CI) (CA INDEX NAME)



RN 186455-95-8 CAPLUS
CN 4-Thiazolidinone, 5-[[1-[[1-(2-phenylethyl)-1H-benzimidazol-2-yl]methyl]-4-piperidinyl]methylene]-2-thioxo- (9CI) (CA INDEX NAME)

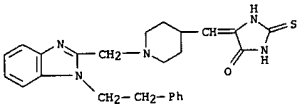


RN 186455-96-9 CAPLUS
CN 4H-Imidazol-4-one, 2-amino-1,5-dihydro-1-methyl-5-[[1-[[1-(2-phenylethyl)-1H-benzimidazol-2-yl]methyl]-4-piperidinyl]methylene]- (9CI) (CA INDEX NAME)

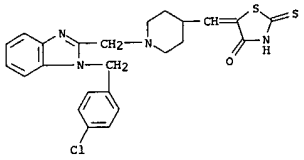


RN 186455-97-0 CAPLUS
CN 4-Imidazolidinone, 5-[[1-[[1-(2-phenylethyl)-1H-benzimidazol-2-yl]methyl]-

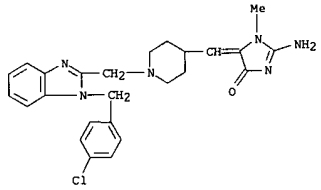
L6 ANSWER 9 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)
4-piperidinyl]methylene]-2-thioxo- (9CI) (CA INDEX NAME)



RN 186455-98-1 CAPLUS
CN 4-Thiazolidinone, 5-[[1-[[1-[(4-chlorophenyl)methyl]-1H-benzimidazol-2-yl]methyl]-4-piperidinyl]methylene]-2-thioxo- (9CI) (CA INDEX NAME)

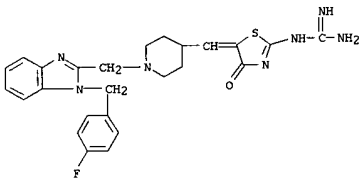


RN 186455-99-2 CAPLUS
CN 4H-Imidazol-4-one, 2-amino-5-[[1-[[1-[(4-chlorophenyl)methyl]-1H-benzimidazol-2-yl]methyl]-4-piperidinyl]methylene]-1,5-dihydro-1-methyl- (9CI) (CA INDEX NAME)

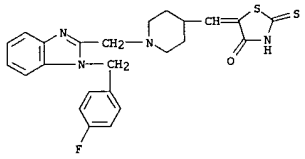


RN 186456-00-8 CAPLUS
CN 4-Thiazolidinone, 5-[[1-[[1-[(4-methoxyphenyl)methyl]-1H-benzimidazol-2-yl]methyl]-4-piperidinyl]methylene]-2-thioxo- (9CI) (CA INDEX NAME)

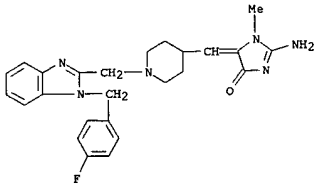
L6 ANSWER 9 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)
(CA INDEX NAME)



RN 186456-04-2 CAPLUS
CN 4-Thiazolidinone, 5-[[1-[[1-[(4-fluorophenyl)methyl]-1H-benzimidazol-2-yl]methyl]-4-piperidinyl]methylene]-2-thioxo- (9CI) (CA INDEX NAME)

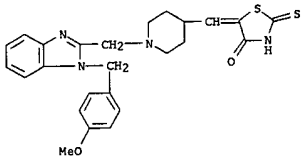


RN 186456-05-3 CAPLUS
CN 4H-Imidazol-4-one, 2-amino-5-[[1-[[1-[(4-fluorophenyl)methyl]-1H-benzimidazol-2-yl]methyl]-4-piperidinyl]methylene]-1,5-dihydro-1-methyl- (9CI) (CA INDEX NAME)

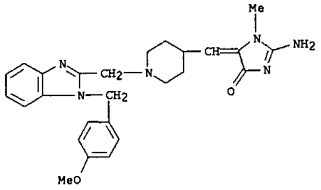


RN 186456-06-4 CAPLUS
CN 4-Imidazolidinone, 5-[[1-[[1-[(4-fluorophenyl)methyl]-1H-benzimidazol-2-yl]methyl]-4-piperidinyl]methylene]-2-thioxo- (9CI) (CA INDEX NAME)

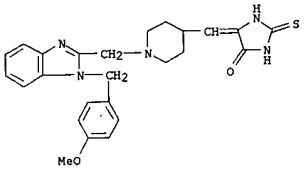
L6 ANSWER 9 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 186456-01-9 CAPLUS
CN 4H-Imidazol-4-one, 2-amino-1,5-dihydro-5-[[1-[[1-[(4-methoxyphenyl)methyl]-1H-benzimidazol-2-yl]methyl]-4-piperidinyl]methylene]-1-methyl- (9CI) (CA INDEX NAME)

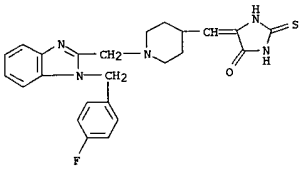


RN 186456-02-0 CAPLUS
CN 4-Imidazolidinone, 5-[[1-[[1-[(4-methoxyphenyl)methyl]-1H-benzimidazol-2-yl]methyl]-4-piperidinyl]methylene]-2-thioxo- (9CI) (CA INDEX NAME)

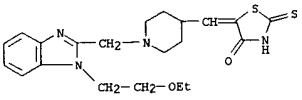


RN 186456-03-1 CAPLUS
CN Guanidine, [5-[[1-[[1-[(4-fluorophenyl)methyl]-1H-benzimidazol-2-yl]methyl]-4-piperidinyl]methylene]-4,5-dihydro-4-oxo-2-thiazolyl]- (9CI)

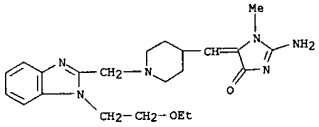
L6 ANSWER 9 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)



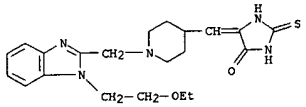
RN 186456-07-5 CAPLUS
CN 4-Thiazolidinone, 5-[[1-[[1-(2-ethoxyethyl)-1H-benzimidazol-2-yl]methyl]-4-piperidinyl]methylene]-2-thioxo- (9CI) (CA INDEX NAME)



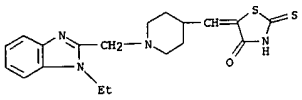
RN 186456-08-6 CAPLUS
CN 4H-Imidazol-4-one, 2-amino-5-[[1-[[1-(2-ethoxyethyl)-1H-benzimidazol-2-yl]methyl]-4-piperidinyl]methylene]-1,5-dihydro-1-methyl- (9CI) (CA INDEX NAME)



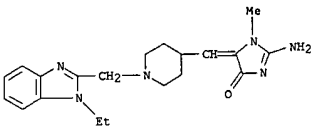
RN 186456-09-7 CAPLUS
CN 4-Imidazolidinone, 5-[[1-[[1-(2-ethoxyethyl)-1H-benzimidazol-2-yl]methyl]-4-piperidinyl]methylene]-2-thioxo- (9CI) (CA INDEX NAME)



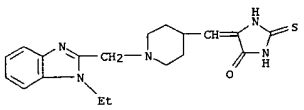
L6 ANSWER 9 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)
RN 186456-10-0 CAPLUS
CN 4-Thiazolidinone, 5-[[1-[(1-ethyl-1H-benzimidazol-2-yl)methyl]-4-piperidinyl]methylene]-2-thioxo- (9CI) (CA INDEX NAME)



RN 186456-11-1 CAPLUS
CN 4H-Imidazol-4-one, 2-amino-5-[[1-[(1-ethyl-1H-benzimidazol-2-yl)methyl]-4-piperidinyl]methylene]-1,5-dihydro-1-methyl- (9CI) (CA INDEX NAME)

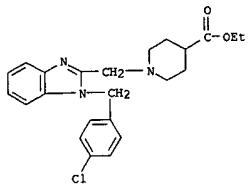


RN 186456-12-2 CAPLUS
CN 4-Imidazolidinone, 5-[[1-[(1-ethyl-1H-benzimidazol-2-yl)methyl]-4-piperidinyl]methylene]-2-thioxo- (9CI) (CA INDEX NAME)

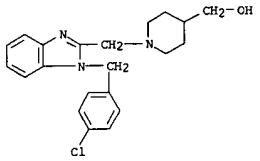


IT **186456-14-4P 186456-15-5P 186456-16-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of imidazolidine and thiazolidine derivs. as allergy inhibitors)
RN 186456-14-4 CAPLUS
CN 4-Piperidinecarboxylic acid, 1-[[1-[(4-chlorophenyl)methyl]-1H-benzimidazol-2-yl]methyl]-, ethyl ester (9CI) (CA INDEX NAME)

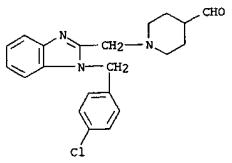
L6 ANSWER 9 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 186456-15-5 CAPLUS
CN 4-Piperidinemethanol, 1-[[1-[(4-chlorophenyl)methyl]-1H-benzimidazol-2-yl]methyl]- (9CI) (CA INDEX NAME)



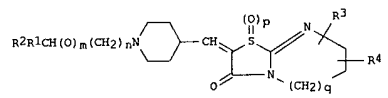
RN 186456-16-6 CAPLUS
CN 4-Piperidinecarboxaldehyde, 1-[[1-[(4-chlorophenyl)methyl]-1H-benzimidazol-2-yl]methyl]- (9CI) (CA INDEX NAME)



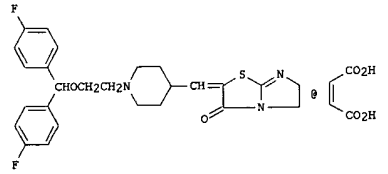
L6 ANSWER 10 OF 32 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1997:113345 CAPLUS
DOCUMENT NUMBER: 126:171594
TITLE: Preparation of nitrogen-containing heterocyclyl compounds as antiallergic agents
INVENTOR(S): Tagami, Yoshihiro; Yamaguchi, Toshiro; Kubo, Junichi; Shimozono, Juji; Yonemura, Keiji; Mukai, Mizue
PATENT ASSIGNEE(S): Hisamitsu Pharmaceutical Co, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09003075	A2	19970107	JP 1995-173008	19950616
PRIORITY APPLN. INFO.:			JP 1995-173008	19950616

OTHER SOURCE(S): MARPAT 126:171594
GI



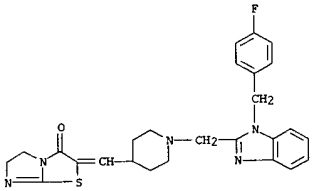
I



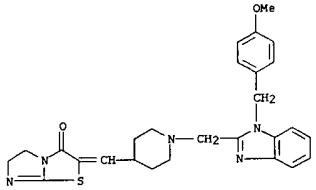
II

AB The title compds. [I; R1 = H, lower alkyl, (un)substituted Ph; R2 = (un)substituted Ph, pyridyl, (un)substituted 2-benzimidazolyl, etc.; R3, R4 = H, lower alkyl; m = 0-1; n = 0-3; p, q = 0-1] are prepd. I, possessing histamine and allergy inhibitory, are useful for prevention and treatment of atopic dermatosis, allergic rhinitis and bronchial asthma, and other allergic diseases. Thus, 1-[2-bis(4-fluorophenyl)methoxyethyl]-4-peridinecarbaldehyde was reacted with 2,3,5,6-tetrahydro-3-oxoimidaz[2,1-b]thiazole in the presence of AcONa to give 35% the title compd. (II). II at 3 X 10-5 M showed 42.1% histamine releasing inhibitory when tested on rabbit in vivo.
IT **186262-33-9P 186262-34-0P 186262-35-1P**
186262-36-2P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological

L6 ANSWER 10 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)
study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of nitrogen-contg. heterocyclyl compds. as antiallergic agents)
RN 186262-33-9 CAPLUS
CN Imidazo[2,1-b]thiazol-3(2H)-one, 2-[[1-[[1-[(4-fluorophenyl)methyl]-1H-benzimidazol-2-yl]methyl]-4-piperidinyl]methylene]-5,6-dihydro- (9CI) (CA INDEX NAME)

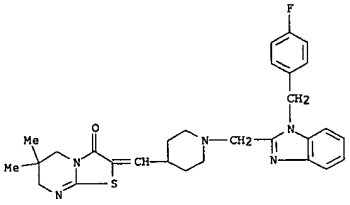


RN 186262-34-0 CAPLUS
CN Imidazo[2,1-b]thiazol-3(2H)-one, 5,6-dihydro-2-[[1-[[1-[(4-methoxyphenyl)methyl]-1H-benzimidazol-2-yl]methyl]-4-piperidinyl]methylene]- (9CI) (CA INDEX NAME)

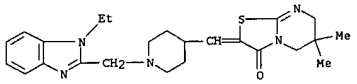


RN 186262-35-1 CAPLUS
CN 5H-Thiazolo[3,2-a]pyrimidin-3(2H)-one, 2-[[1-[[1-[(4-fluorophenyl)methyl]-1H-benzimidazol-2-yl]methyl]-4-piperidinyl]methylene]-6,7-dihydro-6,6-dimethyl- (9CI) (CA INDEX NAME)

L6 ANSWER 10 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)

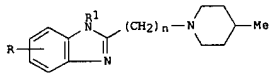


RN 186262-36-2 CAPLUS
CN 5H-Thiazolo[3,2-a]pyrimidin-3(2H)-one, 2-[[1-[(1-ethyl-1H-benzimidazol-2-yl)methyl]-4-piperidinyl]methylene]-6,7-dihydro-6,6-dimethyl- (9CI) (CA INDEX NAME)



L6 ANSWER 11 OF 32 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1996:429470 CAPLUS
DOCUMENT NUMBER: 125:221699
TITLE: Synthesis and antimicrobial activity of some new piperidinyl benzimidazoles
AUTHOR(S): Kus, Canan; Goker, Hakan; Ayhan, Gulgun; Ertan, Rahmiye; Altanlar, Nurten; Akin, Ahmet
CORPORATE SOURCE: Dep. Pharmaceutical Chem., Ankara Univ., Ankara, 06100, Turk.
SOURCE: Farmaco (1996), 51(6), 413-417
CODEN: FRMCE8
PUBLISHER: Societa Chimica Italiana
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



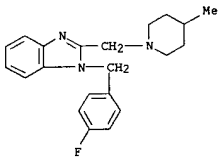
I

AB A series of 2-(4-methylpiperidin-1-yl)-1,5(6)-disubstituted 1H-benzimidazoles I [R = 5(6)-H, 5(6)-Cl, 5-H, 6-Cl, 5(6)-Me, 5(6)-CO2Me, etc.; R1 = H, CH2Ph, CH2C6H4Cl-4, etc.; n = 0, 1] were prepd. through the reaction of 2-chloro (or 2-chloromethyl)-1H-benzimidazole derivs. with 4-methylpiperidine. For the prepn. of the individual isomers, compds. I (R = 5-H, 6-H, R1 = CH2C6H4Cl-4, n = 0; R = 5-Cl, R1 = CH2C6H4Cl-4, n = 0; R = 5-Cl, R1 = Ch2C6H4Cl-4, n = 1) were synthesized by a multistep procedure. The prepd. compds. were screened for their in vitro antibacterial and antifungal activities. Compd. I (R1 = 5-H, 6-H, R1 = CH2Ph, CH2C6H4F-4, n = 0) exhibited the best antifungal activity.

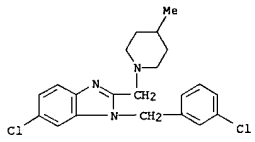
IT **181053-94-1P 181053-95-2P 181053-96-3P**
181053-97-4P 181053-98-5P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. and fungicidal activity of piperidinyl benzimidazoles)

RN 181053-94-1 CAPLUS
CN 1H-Benzimidazole, 1-[(4-fluorophenyl)methyl]-2-[(4-methyl-1-piperidinyl)methyl]- (9CI) (CA INDEX NAME)

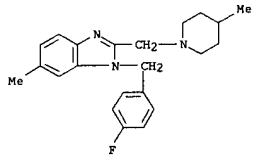
L6 ANSWER 11 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)



RN 181053-95-2 CAPLUS
CN 1H-Benzimidazole, 6-chloro-1-[(3-chlorophenyl)methyl]-2-[(4-methyl-1-piperidinyl)methyl]- (9CI) (CA INDEX NAME)

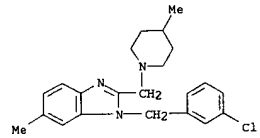


RN 181053-96-3 CAPLUS
CN 1H-Benzimidazole, 1-[(4-fluorophenyl)methyl]-6-methyl-2-[(4-methyl-1-piperidinyl)methyl]- (9CI) (CA INDEX NAME)

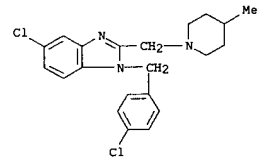


RN 181053-97-4 CAPLUS
CN 1H-Benzimidazole, 1-[(3-chlorophenyl)methyl]-6-methyl-2-[(4-methyl-1-piperidinyl)methyl]- (9CI) (CA INDEX NAME)

L6 ANSWER 11 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)



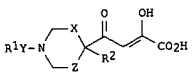
RN 181053-98-5 CAPLUS
CN 1H-Benzimidazole, 5-chloro-1-[(4-chlorophenyl)methyl]-2-[(4-methyl-1-piperidinyl)methyl]- (9CI) (CA INDEX NAME)



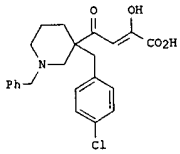
L6 ANSWER 12 OF 32 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1996:35029 CAPLUS
DOCUMENT NUMBER: 124:232250
TITLE: Piperidinyldioxobutanoic acid derivatives as inhibitors of influenza endonuclease
INVENTOR(S): Selnick, Harold G.; Ponticello, Gerald S.; Baldwin, John J.; Tomassini, Joanne E.
PATENT ASSIGNEE(S): Merck and Co., Inc., USA
SOURCE: U.S., 16 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5475109	A	19951212	US 1994-324190	19941017
US 5618830	A	19970408	US 1995-536294	19950929
GB 2294264	A1	19960424	GB 1995-20625	19951009
GB 2294264	B2	19981014		
PRIORITY APPLN. INFO.:			US 1994-324190	19941017

OTHER SOURCE(S): MARPAT 124:232250
GI



I



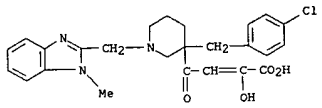
II

AB Dioxobutanoic acids substituted with piperidine or similar N-substituted satd. cycloalkyls, I or pharmaceutically acceptable salt, hydrate or crystal forms thereof, wherein: X is CH2, CH2CH2, or a bond; Z is CH2, CH2CH2, or a bond; Y is CH2 , CO, SO2, or a bond; R1 and R2 are independently selected from the following: branched or unbranched C1-6 alkyl, C1-6 alkyloxy, NC1-6 alkyl, C3-8 cycloalkyl, Ph, naphthyl, pyridyl, furanyl, thienyl, or quinolinyl, any of which may be substituted once or

L6 ANSWER 12 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)
twice with C1-5 alkyl, C3-8 cycloalkyl, Ph, quinolinyl, pyridyl, furanyl, thienyl, C1-6-alkoxy, Br, F, or Cl, are found to inhibit the cap-dependent endonuclease of influenza virus. These compds. are useful in the prevention or treatment of infection by influenza virus and the treatment of influenza, either as compd., pharmaceutically acceptable salts, pharmaceutical compn. ingredients, whether or not in combination with other antivirals, immunomodulators, antibiotics or vaccines. Methods of treating influenza and methods of preventing or treating infection by influenza virus are also described. Thus, e.g., treatment of N-benzyl-3-acetyl-3-(4-chlorobenzyl)piperidine with di-Me oxalate and NaH followed by HCl afforded 4-[N-benzyl-3-(4-chlorobenzyl)-piperidin-3-yl]-2,4-dioxobutanoic acid hydrochloride (II.HCl) which inhibited alfalfa mosaic virus primed flu transcription with IC50 = 1.1 .mu.M.

IT **174605-79-9P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(piperidinyldioxobutanoic acid derivs. as inhibitors of influenza endonuclease)

RN 174605-79-9 CAPLUS
CN 2-Butenoic acid, 4-[3-[(4-chlorophenyl)methyl]-1-[(1-methyl-1H-benzimidazol-2-yl)methyl]-3-piperidinyl]-2-hydroxy-4-oxo-, hydrochloride (9CI) (CA INDEX NAME)



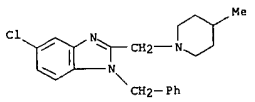
●x HCl

L6 ANSWER 13 OF 32 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1995:609512 CAPLUS
DOCUMENT NUMBER: 123:198743
TITLE: Synthesis of 1,2,5(6)-trisubstituted benzimidazoles and evaluation of their antimicrobial activities
AUTHOR(S): Goker, Hakan; Kus, Canan; Abbasoglu, Ufuk
CORPORATE SOURCE: Fac. Pharmacy, Univ. Ankara, Tandogan, 06100, Turk.
SOURCE: Archiv der Pharmazie (Weinheim, Germany) (1995), 328(5), 425-30
CODEN: ARPMAS; ISSN: 0365-6233
PUBLISHER: VCH
DOCUMENT TYPE: Journal
LANGUAGE: English

AB A series of benzimidazoles, having several substituents on the azole and benzene nuclei, were prepd. and evaluated in vitro for antimicrobial activity. At first 2-chloro or 2-chloromethyl-5(6)-substituted-1H-benzimidazoles were synthesized, which were then substituted at C-2 with several piperazine or piperidine derivs. The antibacterial activity of these compds. against Staphylococcus aureus, Bacillus subtilis, Escherichia coli, and Pseudomonas aeruginosa, and the antifungal activity against Candida albicans, Candida stellatoidea, Candida parapsilosis, and Candida pseudotropicalis were detd. as the MIC values. Since 5-chloro-2-[(4-methyl-1-piperidinyl)methyl]-1H-benzimidazole exhibits good activity, in order to clarify the effect of substituents at C-1 on the activity, benzimidazole derivs. having Et, allyl, benzyl, and p-fluorobenzyl substituents at C-1 were prepd., and slightly increased activity was seen.

IT **167970-29-8P 167970-30-1P 167970-31-2P**
167970-32-3P 167970-47-0P 167970-48-1P
167970-49-2P 167970-50-5P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. and biocidal activity of (piperidinylalkyl)benzimidazole and analogs)

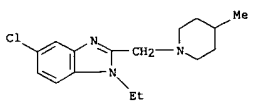
RN 167970-29-8 CAPLUS
CN 1H-Benzimidazole, 5-chloro-2-[(4-methyl-1-piperidinyl)methyl]-1-(phenylmethyl)-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

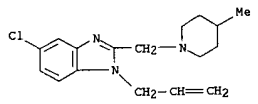
RN 167970-30-1 CAPLUS
CN 1H-Benzimidazole, 5-chloro-1-ethyl-2-[(4-methyl-1-piperidinyl)methyl]-, dihydrochloride (9CI) (CA INDEX NAME)

L6 ANSWER 13 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)



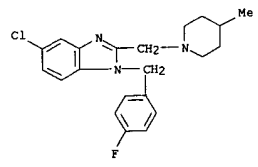
●2 HCl

RN 167970-31-2 CAPLUS
CN 1H-Benzimidazole, 5-chloro-2-[(4-methyl-1-piperidinyl)methyl]-1-(2-propenyl)-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

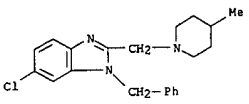
RN 167970-32-3 CAPLUS
CN 1H-Benzimidazole, 5-chloro-1-[(4-fluorophenyl)methyl]-2-[(4-methyl-1-piperidinyl)methyl]-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

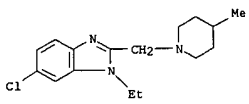
RN 167970-47-0 CAPLUS
CN 1H-Benzimidazole, 6-chloro-2-[(4-methyl-1-piperidinyl)methyl]-1-(phenylmethyl)-, dihydrochloride (9CI) (CA INDEX NAME)

L6 ANSWER 13 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)



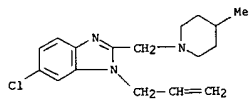
●2 HCl

RN 167970-48-1 CAPLUS
CN 1H-Benzimidazole, 6-chloro-1-ethyl-2-[(4-methyl-1-piperidinyl)methyl]-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

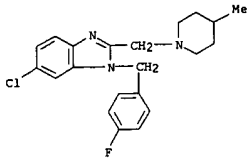
RN 167970-49-2 CAPLUS
CN 1H-Benzimidazole, 6-chloro-2-[(4-methyl-1-piperidinyl)methyl]-1-(2-propenyl)-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

RN 167970-50-5 CAPLUS
CN 1H-Benzimidazole, 6-chloro-1-[(4-fluorophenyl)methyl]-2-[(4-methyl-1-piperidinyl)methyl]-, dihydrochloride (9CI) (CA INDEX NAME)

L6 ANSWER 13 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)



●2 HCl

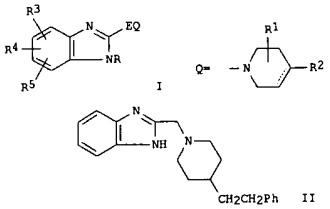
L6 ANSWER 14 OF 32 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1995:234792 CAPLUS
DOCUMENT NUMBER: 122:31519
TITLE: Preparation of 2-piperidinomethylbenzimidazoles and analogs as dopamine receptor ligands
INVENTOR(S): Kulagowski, Janusz Jozef; Leeson, Paul David
PATENT ASSIGNEE(S): Merck Sharp and Dohme Ltd., UK
SOURCE: PCT Int. Appl., 53 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9421615	A1	19940929	WO 1994-GB528	19940316
W: AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LK, LU, LV, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, UA, US, UZ, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2156836	AA	19940929	CA 1994-2156836	19940316
AU 9462156	A1	19941011	AU 1994-62156	19940316
AU 679045	B2	19970619		
EP 689535	A1	19960103	EP 1994-909233	19940316
EP 689535	B1	19980923		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
JP 08508030	T2	19960827	JP 1994-520781	19940316
AT 171447	E	19981015	AT 1994-909233	19940316
ES 2121193	T3	19981116	ES 1994-909233	19940316
US 5714498	A	19980203	US 1995-530099	19950912

PRIORITY APPLN. INFO.: GB 1993-5628 19930318
GB 1993-16258 19930805
WO 1994-GB528 19940316

OTHER SOURCE(S): MARPAT 122:31519
GI



AB Title compds. (I; E = CH2, CH2CH2; Q = e.g., piperidino group Q1; R = H, alkyl; R1 = H, alkyl, alkoxy, aryl, etc.; R2 = alkyl, alkoxy, aryl, etc.;

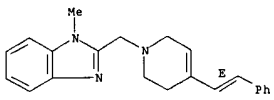
L6 ANSWER 14 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)

R3-R5 = H, halo, hydrocarbyl, heterocyclyl, etc.; dashed line = optional bond) were prepd. Thus, 2-chloromethylbenzimidazole was condensed with 4-(2-phenylethyl)piperidine to give title compd. II. I had Ki of <1.5.mu.M for displacement of spiperone from human D4 receptors in vitro.

IT **159557-36-5P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of 2-piperidinomethylbenzimidazoles and analogs as dopamine receptor ligands)

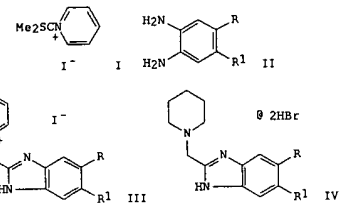
RN 159557-36-5 CAPLUS
CN 1H-Benzimidazole, 2-[[3,6-dihydro-4-(2-phenylethenyl)-1(2H)-pyridinyl]methyl]-1-methyl-, dihydrochloride, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



●2 HCl

L6 ANSWER 15 OF 32 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1988:528908 CAPLUS
DOCUMENT NUMBER: 109:128908
TITLE: Synthetic uses of 1-[[(methylthio)thiocarbonyl]methyl] pyridinium iodide. Synthesis of new benzimidazole derivatives
AUTHOR(S): Cuadro, Ana M.; Alvarez-Builla, Julio; Vaquero, Juan J.
CORPORATE SOURCE: Dep. Quim. Org., Univ. Alcala de Henares, Madrid, Spain
SOURCE: Heterocycles (1988), 27(5), 1233-40
CODEN: HTCYAM; ISSN: 0385-5414
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 109:128908
GI



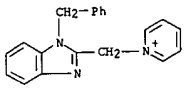
AB The title pyridinium compd. (I) was treated with phenylenediamines II (R = H, R1 = H, Me, Cl, OMe; R = R1 = Me) in refluxing MeOH to give benzimidazoles III. III can be alkylated and acylated by std. procedures. III (R = H, R1 = H, Me, Cl; R = R1 = Me) were reduced with Na2S2O4 and then treated with HBr to give piperidine derivs. IV.

IT **116423-76-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and benzylation of, with benzyl chloride)

RN 116423-76-8 CAPLUS
CN Pyridinium, 1-[[1-(phenylmethyl)-1H-benzimidazol-2-yl]methyl]-, iodide (9CI) (CA INDEX NAME)

L6 ANSWER 15 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)

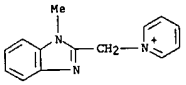
L6 ANSWER 15 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)



● I⁻

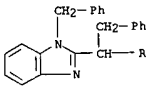
IT **116423-77-9P 116423-78-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 116423-77-9 CAPLUS
CN Pyridinium, 1-[(1-methyl-1H-benzimidazol-2-yl)methyl]-, iodide (9CI) (CA INDEX NAME)



● I⁻

RN 116423-78-0 CAPLUS
CN Pyridinium, 1-[2-phenyl-1-[1-(phenylmethyl)-1H-benzimidazol-2-yl]ethyl]-, iodide (9CI) (CA INDEX NAME)



● I⁻

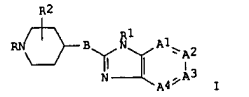
L6 ANSWER 16 OF 32 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1988:437821 CAPLUS
DOCUMENT NUMBER: 109:37821
TITLE: Preparation of 4-[(bicyclic heterocyclyl)methyl]piperidines and analogs as antihistaminics
INVENTOR(S): Janssens, Frans E.; Kennis, Ludo E. J.; Hens, Jozef F.; Torremans, Joseph L. G.; Diels, Gaston S. M.
PATENT ASSIGNEE(S): Janssen Pharmaceutica N. V., Belg.
SOURCE: U.S., 59 pp. Cont.-in-part of U.S. Ser. No. 571,135, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4695575	A	19870922	US 1985-747754	19850624
ES 539281	A1	19870616	ES 1984-539281	19841231
AU 8537364	A1	19850912	AU 1985-37364	19850107
AU 573673	B2	19880616		
CA 1259609	A1	19890919	CA 1985-471589	19850107
FI 8500079	A	19850710	FI 1985-79	19850108
FI 83867	B	19910531		
FI 83867	C	19910910		
NO 8500085	A	19850710	NO 1985-85	19850108
NO 160849	B	19890227		
NO 160849	C	19890607		
DK 8500089	A	19850710	DK 1985-89	19850108
JP 60185777	A2	19850921	JP 1985-479	19850108
JP 07068240	B4	19950726		
HU 36471	A2	19850930	HU 1985-61	19850108
HU 200338	B	19900528		
ZA 8500187	A	19860827	ZA 1985-187	19850108
RO 90622	B3	19861210	RO 1985-117252	19850108
SU 1396964	A3	19880515	SU 1985-3836858	19850108
IL 74018	A1	19880831	IL 1985-74018	19850108
PL 145710	B1	19881031	PL 1985-251488	19850109
US 4839374	A	19890613	US 1987-94987	19870910

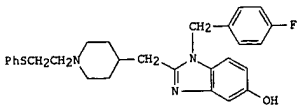
PRIORITY APPLN. INFO.: US 1984-569369 19840109
US 1984-671135 19841113
US 1985-747754 19850624

OTHER SOURCE(S): CASREACT 109:37821
GI

L6 ANSWER 16 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)



I



II

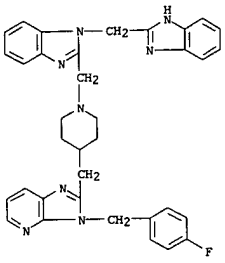
AB The title compds. [I; 3 of A1-A4 = (un)substituted CH, the 4th = N, (un)substituted CH; B = CH2, O, SO, SO2; R = substituted C1-6 alkyl, alkoxy, alkylthio, amino, pyrrolidinyl, piperidinyl, hexahydroazepinyl, etc.; R1 = H, alkyl, cycloalkyl, (un)substituted aryl, heteroaryl, (hetero)aralkyl; R2 = H, alkyl] and their stereoisomers and acid salts were prepd. as antihistaminics and serotonin antagonists. 1-[(4-Fluorophenyl)methyl]-2-(4-piperidinylmethyl)-1H-benzimidazol-5-ol and PhSCH2CH2Br were refluxed 2 h in Me2CHCH2COMe contg. Na2CO3 to give 27.8% benzimidazole deriv. (II). I inhibited compd. 48/80-induced lethality in rats, caused by histamine release, with ED50 of 0.005-0.16 mg/kg s.c. or orally. I also inhibited gastric lesions caused by simultaneous release of serotonin.

IT **99963-46-9P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as antihistaminic)

RN 99963-46-9 CAPLUS

CN 3H-Imidazo[4,5-b]pyridine, 2-[[1-[[1-(1H-benzimidazol-2-ylmethyl)-1H-benzimidazol-2-yl]methyl]-4-piperidinyl]methyl]-3-[(4-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)

L6 ANSWER 16 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)



L6 ANSWER 17 OF 32 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1987:407096 CAPLUS

DOCUMENT NUMBER: 107:7096

TITLE: Psychotropic agents: synthesis and antipsychotic activity of substituted .beta.-carbolines

AUTHOR(S): Abou-Gharbia, Magid; Patel, Usha R.; Moyer, John A.; Muth, Eric A.

CORPORATE SOURCE: Med. Chem., Wyeth Lab., Inc., Philadelphia, PA, 19101, USA

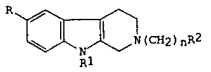
SOURCE: Journal of Medicinal Chemistry (1987), 30(6), 1100-5
CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 107:7096

GI



I

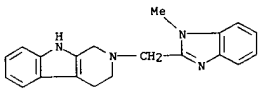
AB Forty-four substituted .beta.-carbolines I [R = H, OMe, Cl, F; R1 = H, Me2N(CH2)3, PhCH2, piperidinylpropyl, etc., R2 = 2-, 4-pyridinyl, 2-, 4-quinolinyl, etc.; n = 1, 2, 3, 4, 7] were tested for potential antipsychotic activity. For example, 2,3,4,9-tetrahydro-1H-pyrido[3,4-b]indole was treated with 4-picolyl chloride hydrochloride in DMF in the presence of K2CO3 and Cs2CO3 to give 36% I.2HCl (R = R1 = H, R2 = 4-pyridinyl, n = 1). Several compds. displayed moderate antipsychotic activity in vitro and in vivo as detd. by relevant receptor binding assays and behavioral tests. The effect of substituents on antipsychotic activity was examd. I (R = R1 = H; R2 = 2-pyridinyl, 2-quinolinyl; n = 2) were the most potent analogs, blocking discrete trial conditioned avoidance responding in rats with AB50's of 23 and 10 mg/kg, resp. Both showed moderate activity at the D2 receptor sites, but they lacked oral activity. In contrast I (R = R1 = H, R2 = 4-pyridinyl, n = 4) exhibited oral activity in the discrete trial conditioned avoidance screen with an AB50 of 31 mg/kg. Most compds. did not antagonize apomorphine-induced stereotyped behavior, which is indicative of low potential for extrapyramidal side effect (EPS) liability.

IT **107890-27-7P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. and antipsychotic activity of)

RN 107890-27-7 CAPLUS

CN 1H-Pyrido[3,4-b]indole, 2,3,4,9-tetrahydro-2-[(1-methyl-1H-benzimidazol-2-yl)methyl]-, dihydrochloride (9CI) (CA INDEX NAME)

L6 ANSWER 17 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)



●2 HCl

L6 ANSWER 18 OF 32 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1986:68861 CAPLUS
DOCUMENT NUMBER: 104:68861
TITLE: (Piperidinylmethyl)- and (piperidinyloxy)benzimidazole s and -imidazopyridines
INVENTOR(S): Janssens, Frans Eduard; Kennis, Ludo Edmond Josephine; Hens, Jozef Francis; Torremans, Joseph Leo G.; Diels, Gaston Stanislas M.
PATENT ASSIGNEE(S): Janssen Pharmaceutica N. V., Belg.
SOURCE: Eur. Pat. Appl., 140 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

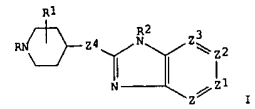
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 151826	A1	19850821	EP 1984-201851	19841213
EP 151826	B1	19930331		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
AT 87626	E	19930415	AT 1984-201851	19841213
ES 539281	A1	19870616	ES 1984-539281	19841231
AU 8537364	A1	19850912	AU 1985-37364	19850107
AU 573673	B2	19880616		
CA 1259609	A1	19890919	CA 1985-471589	19850107
FI 8500079	A	19850710	FI 1985-79	19850108
FI 83867	B	19910531		
FI 83867	C	19910910		
NO 8500085	A	19850710	NO 1985-85	19850108
NO 160849	B	19890227		
NO 160849	C	19890607		
DK 8500089	A	19850710	DK 1985-89	19850108
JP 60185777	A2	19850921	JP 1985-479	19850108
JP 07068240	B4	19950726		
HU 36471	A2	19850930	HU 1985-61	19850108
HU 200338	B	19900528		
ZA 8500187	A	19860827	ZA 1985-187	19850108
RO 90622	B3	19861210	RO 1985-117252	19850108
SU 1396964	A3	19880515	SU 1985-3836858	19850108
IL 74018	A1	19880831	IL 1985-74018	19850108
PL 145710	B1	19881031	PL 1985-251488	19850109

PRIORITY APPLN. INFO.: US 1984-569369 19840109
US 1984-671135 19841113
EP 1984-201851 19841213

GI

L6 ANSWER 18 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)

L6 ANSWER 18 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)



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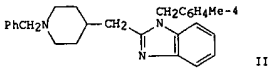


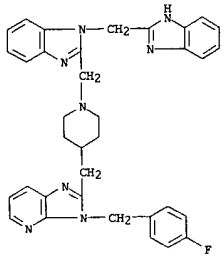
II

AB The title compds. I (Z-Z3 = CH, or one of Z-Z3 is N and the remainder are CH; Z4 = CH2, O, S, SO, SO2; R = alkyl, aryl-, heteroaryl-, acyl-hydroxy-, aryloxy, heteroaryloxy-, alkoxy-, arylthio-, carbonyl-, carboalkoxy-, cyano-, amino-, ureido-, thioureido-, or guanidinoalkyl, cycloalkyl, alkenyl, arylalkenyl; R1 = H, alkyl; R2 = H, alkyl, cycloalkyl, aryl, heteroaryl, aryl- or heteroarylalkyl), which were prepd., exhibited antihistaminic activity. Thus, a mixt. of 2-(4-MeC6H4CH2NH)C6H4NH2 and Et 1-benzyl-4-piperidineacetimidate hydrochloride in MeOH was refluxed and NH3 was added to give benzimidazole II.

IT **99963-46-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 99963-46-9 CAPLUS

CN 3H-Imidazo[4,5-b]pyridine, 2-[[1-[[1-(1H-benzimidazol-2-ylmethyl)-1H-benzimidazol-2-yl]methyl]-4-piperidinyl]methyl]-3-[(4-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)



L6 ANSWER 19 OF 32 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1985:615287 CAPLUS
DOCUMENT NUMBER: 103:215287
TITLE: Five membered heterocyclic ring containing N-(bicyclic heterocyclyl)-4-piperidinamines
INVENTOR(S): Janssens, Frans Eduard; Torremans, Joseph Leo Ghislanus; Hens, Jozef Francis; Van Offenwert, Theophilus Theresia
PATENT ASSIGNEE(S): Janssen Pharmaceutica N. V., Belg.
SOURCE: Eur. Pat. Appl., 76 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 145037	A2	19850619	EP 1984-201326	19840914
EP 145037	A3	19850710		
EP 145037	B1	19890118		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
US 4634704	A	19870106	US 1984-625343	19840627
CA 1247614	A1	19881227	CA 1984-462540	19840906
AT 40130	E	19890215	AT 1984-201326	19840914
IL 73118	A1	19880331	IL 1984-73118	19840930
RO 90457	B3	19861210	RO 1984-115894	19841004
FI 8403934	A	19850407	FI 1984-3934	19841005
FI 81797	B	19900831		
FI 81797	C	19901210		
DK 8404784	A	19850407	DK 1984-4784	19841005
DK 163239	B	19920210		
DK 163239	C	19920629		
NO 8404009	A	19850409	NO 1984-4009	19841005
NO 160441	B	19890109		
NO 160441	C	19890419		
AU 8433872	A1	19850418	AU 1984-33872	19841005
AU 565884	B2	19871001		
ES 536590	A1	19851116	ES 1984-536590	19841005
JP 61010577	A2	19860118	JP 1984-208394	19841005
JP 07098818	B4	19951025		
ZA 8407847	A	19860528	ZA 1984-7847	19841005
HU 38629	A2	19860630	HU 1984-3771	19841005
HU 207514	B	19930428		
SU 1440346	A3	19881123	SU 1984-3796140	19841005
PL 146228	B1	19890131	PL 1984-249916	19841005

PRIORITY APPLN. INFO.: US 1983-539597 19831006
US 1984-625343 19840627
EP 1984-201326 19840914

OTHER SOURCE(S): CASREACT 103:215287

GI For diagram(s), see printed CA Issue.

AB The title compds. [I; R = H, alkyl; R1 = H, alkyl, thienyl, halothienyl, pyrazinyl, thiazolyl, alkylthiazolyl, imidazolyl, alkylimidazolyl, (un)substituted Ph, alkyl substituted by 1 or 2 of these arom. groups; R2 = H, alkyl, cycloalkyl, alkanoyl, alkoxycarbonyl, (un)substituted Ph; R3 = R4(CH2)nZ2, R4(CH2)nZ2C(X1)Z2, Q; R4 = 5-membered heterocyclyl contg. .gtoreq.1 N atoms, optionally fused to a C6H6 ring; X = (un)substituted CH:CHCH:CH, N:CHCH:CH, CH:NCH:CH, CH:CHN:CH, CH:CHCH:N; X1 = O, S, O2NCH, R5N; R5 = H, alkyl, cyano, NO2, acyl; Z = O, S, R6 N, bond; R6 = H, alkyl, amino, acyl; Z1 = alkylene; Z2 = O, S, R7N, bond; R7 = H, alkyl; n = 0-6; m = 0-2] were prepd. Thus, N-(2-nitrophenyl)-2-furanmethanamine was

L6 ANSWER 19 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)

hydrogenated and the diamine condensed with Et 4-isothiocyanato-1-piperidinecarboxylate to give thiourea deriv. II. This was cyclized to a benzimidazole deriv. by heating with HgO and S in EtOH, decarboxylated by heating in aq. HBr, and N-alkylated with 4-(chloromethyl)-5-methyl-1H-imidazole-HCl to give benzimidazolamine III. The antihistaminic properties of I were demonstrated in rats, where I inhibited the lethality of compd. 48/80 with ED50 0.005-1.25 mg/kg s.c. or orally, and inhibit gastric lesions in rats caused by the same agent with ED50 0.04-1.25 mg/kg s.c.

IT **99137-45-8P**

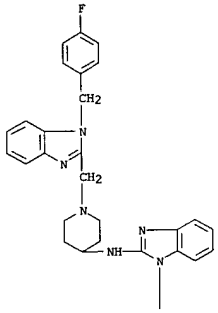
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(prepn. and antihistaminic activity of)

RN 99137-45-8 CAPLUS

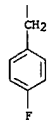
CN 1H-Benzimidazol-2-amine, 1-[(4-fluorophenyl)methyl]-N-[1-[[1-[(4-fluorophenyl)methyl]-1H-benzimidazol-2-yl]methyl]-4-piperidinyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



L6 ANSWER 19 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)

PAGE 2-A



L6 ANSWER 20 OF 32 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1979:54879 CAPLUS

DOCUMENT NUMBER: 90:54879

TITLE: Some reactions of 2-cyanobenzimidazoles

AUTHOR(S): Bukowski, Ludwik

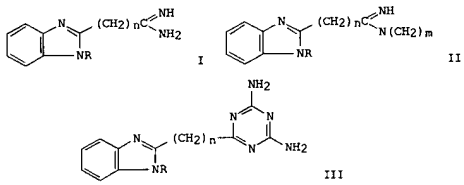
CORPORATE SOURCE: Inst. Technol. Anal. Pharm. Prod., Sch. Med., Gdansk, Pol.

SOURCE: Acta Poloniae Pharmaceutica (1978), 35(3), 295-9
CODEN: APPHAX; ISSN: 0001-6837

DOCUMENT TYPE: Journal

LANGUAGE: Polish

GI



I II

III

AB The 2-cyano and 2-cyanomethyl derivs. of benzimidazole and 1-methylbenzimidazole treated in anhyd. PhMe or C6H4Me2 with AlCl3 and then with NH3 gave four I (R = H, Me; n = 0, 1). In an analogous reaction with piperidine and pyrrolidine, 6 II (R and n as above, m = 4, 5) were obtained. The nitriles refluxed with cyanoguanidine in C5H11OH contg. some K2CO3 yielded 4 III (R and n as above). Reaction with HSCH2CO2H failed to give the expected 2-(2-thiazolyl)benzimidazole derivs. I and II were isolated and identified as the picrates.

IT **69007-08-5P**

RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. of)

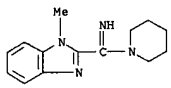
RN 69007-08-5 CAPLUS

CN Piperidine, 1-[imino(1-methyl-1H-benzimidazol-2-yl)methyl]-, compd. with 2,4,6-trinitrophenol (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 69007-07-4

CMF C14 H18 N4

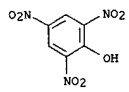


L6 ANSWER 20 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)

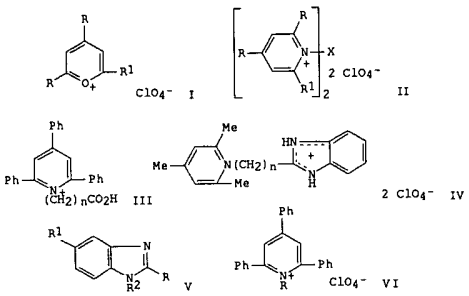
CM 2

CRN 88-89-1

CMF C6 H3 N3 O7



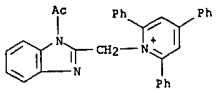
L6 ANSWER 21 OF 32 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1978:579817 CAPLUS
DOCUMENT NUMBER: 89:179817
TITLE: Synthesis and properties of N-hetarylpyridinium salts
AUTHOR(S): Zvezdina, E. A.; Zhdanova, M. P.; Bren, V. A.; Dorofeenko, G. N.
CORPORATE SOURCE: Rostov. Gos. Univ., Rostov, USSR
SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (1978), (7), 944-9
CODEN: KGSSAQ; ISSN: 0453-8234
DOCUMENT TYPE: Journal
LANGUAGE: Russian
GI



AB Reaction of X(NH2)2 [X = (CH2)6, p-phenylene] with pyrylium salts I (R = R1 = Ph; R = Me, R1 = Ph) gave 35-100% II. III (n = 2, 3) were obtained in 78-83.5% yield similarly. IV (n = 2, 3) were obtained in 43-8% yield by reaction of o-C6H4(NH2)2 with the resp. pyridinium salt. The pKa of V (R = H, 2,4,6-trimethyl(phenyl)pyridiniomethyl, 2,4,6-triphenylpyridinioethyl(propyl), 2,4,6-triphenylpyridinio; R1 = H, 2,4,6-trimethyl(phenyl)pyridinio; R2 = H, Me, Et, nonyl) and VI (R = 2- and 4-pyridyl) were tabulated.
IT **67766-23-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 67766-23-8 CAPLUS
CN Pyridinium, 1-[(1-acetyl-1H-benzimidazol-2-yl)methyl]-2,4,6-triphenyl-, perchlorate (9CI) (CA INDEX NAME)

CM 1

L6 ANSWER 21 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)
CRN 67766-22-7
CMF C33 H26 N3 O

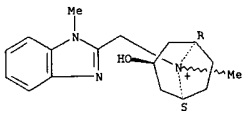


CM 2

CRN 14797-73-0
CMF Cl O4

L6 ANSWER 22 OF 32 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1975:531520 CAPLUS
DOCUMENT NUMBER: 83:131520
TITLE: Benzimidazole derivatives
AUTHOR(S): Steck, Edgar A.; Brundage, R. Pauline
CORPORATE SOURCE: Sterling-Winthrop Res. Inst., Rensselaer, NY, USA
SOURCE: Organic Preparations and Procedures International (1975), 7(1), 6-11
CODEN: OPPIAK; ISSN: 0030-4948
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB 1-(Aminomethyl)benzimidazoles [I, R = Me, NR2 = 3-carbamoyl-1-piperidinyl, 3-(diethylcarbamoyl-1-piperidinyl, 4-(2-hydroxyethyl)-1-piperazinyl, 4-(ethoxycarbonyl)-1-piperazinyl, R1 = 5-Cl, 6Cl, or 5,6-Cl2] were prepd. by Mannich reaction of the appropriate benzimidazole and amine; o-C6H4(NH2)2 or 4-chloro-o-phenylenediamine reacted with 2-deoxy-D-glucose in the presence of Cu(I) acetate to give the corresponding 2-(D-arabino-2,3,4,5-tetrahydroxypentyl)benzimidazole; 2-(chloromethyl)-1-methyl-2-benzimidazole was treated with piperazine and tropine to give 1,4-bis(1-methyl-2-benzimidazolylmethyl)piperazine and 8-(1-methyl-2-benzimidazolyl)methyltropinium chloride resp.
IT **56797-67-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 56797-67-2 CAPLUS
CN 8-Azoniabicyclo[3.2.1]octane, 3-hydroxy-8-methyl-8-[(1-methyl-1H-benzimidazol-2-yl)methyl]-, chloride, endo- (9CI) (CA INDEX NAME)

Relative stereochemistry.



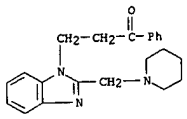
● Cl⁻

L6 ANSWER 23 OF 32 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1975:156314 CAPLUS
DOCUMENT NUMBER: 82:156314
TITLE: Pharmaceutical 2-(aminoethyl)-1-(2-benzoylethyl)benzimidazoles
INVENTOR(S): Fauran, Claude; Eberle, Jeannine; Raynaud, Guy; Dorme, Nicole
PATENT ASSIGNEE(S): Delalande S. A.
SOURCE: Ger. Offen., 32 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

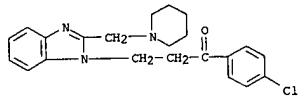
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2431532	A1	19750130	DE 1974-2431532	19740701
FR 2244500	A1	19750418	FR 1973-24388	19730703
GB 1430894	A	19760407	GB 1974-26451	19740614
BE 816459	A1	19741217	BE 1974-145535	19740617
ZA 7403928	A	19750625	ZA 1974-3928	19740619
US 3962256	A	19760608	US 1974-481273	19740620
JP 50025566	A2	19750318	JP 1974-73184	19740626
AU 7470642	A1	19760108	AU 1974-70642	19740701
NL 7408975	A	19750107	NL 1974-8975	19740702
SE 7408728	A	19750107	SE 1974-8728	19740702
SE 408796	C	19791018		
SE 408796	B	19790709		
ES 427871	A1	19760801	ES 1974-427871	19740702
SU 525426	D	19760815	SU 1974-2041960	19740702
CA 1030962	A1	19780509	CA 1974-203920	19740703
CH 599942	A	19780615	CH 1974-9108	19740703

PRIORITY APPLN. INFO.: FR 1973-24388 19730703
GI For diagram(s), see printed CA Issue.
AB About 50 benzimidazoles I [Rn = H, Cl-4, F-4, Bu-4, Me-4, Me2-2,4, (OMe)2-2,4, or (OMe)3-3,4,5; R1 = NMe2, NEt2, 1-pyrrolidinyl, piperidino, morpholino, or perhydro-1-azepinyl] or their salts were prepd. by reaction of I (R1 = Cl) with amines R1H. I had analgesic, antacid, antiarrhythmic, antihistaminic, antihypertensive, bronchodilatory, central nervous system stimulating, diuretic, inflammation inhibiting, sedative, spasmolytic, ulcer inhibiting, and vasodilatory activity. Thus, 2-(hydroxymethyl)benzimidazole and (piperidinomethyl)acetophenone were refluxed in aq. MeOH to give 66% I (Rn = H, R1 = OH), which on reaction with SOCl2 in CHCl3 gave 67% I (Rn = H, R1 = Cl) (II). II and Me2NH were heated in C6H6 at 50.degree. to give 70% I (Rn = H, R1 = NMe2).
IT **55416-30-3P 55416-36-9P 55416-44-9P**
55416-50-7P 55416-57-4P 55416-64-3P
55416-71-2P 55416-77-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and pharmaceutical activity of)
RN 55416-30-3 CAPLUS
CN 1-Propanone, 1-phenyl-3-[2-(1-piperidinylmethyl)-1H-benzimidazol-1-yl]- (9CI) (CA INDEX NAME)

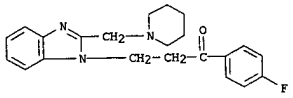
L6 ANSWER 23 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)



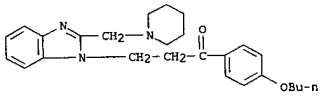
RN 55416-36-9 CAPLUS
CN 1-Propanone, 1-(4-chlorophenyl)-3-[2-(1-piperidinylmethyl)-1H-benzimidazol-1-yl]- (9CI) (CA INDEX NAME)



RN 55416-44-9 CAPLUS
CN 1-Propanone, 1-(4-fluorophenyl)-3-[2-(1-piperidinylmethyl)-1H-benzimidazol-1-yl]- (9CI) (CA INDEX NAME)

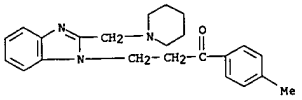


RN 55416-50-7 CAPLUS
CN 1-Propanone, 1-(4-butoxyphenyl)-3-[2-(1-piperidinylmethyl)-1H-benzimidazol-1-yl]- (9CI) (CA INDEX NAME)

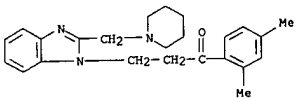


RN 55416-57-4 CAPLUS
CN 1-Propanone, 1-(4-methylphenyl)-3-[2-(1-piperidinylmethyl)-1H-benzimidazol-1-yl]- (9CI) (CA INDEX NAME)

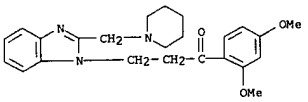
L6 ANSWER 23 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)



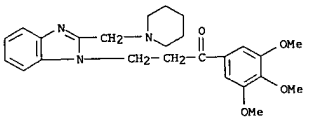
RN 55416-64-3 CAPLUS
CN 1-Propanone, 1-(2,4-dimethylphenyl)-3-[2-(1-piperidinylmethyl)-1H-benzimidazol-1-yl]- (9CI) (CA INDEX NAME)



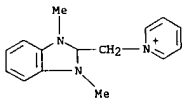
RN 55416-71-2 CAPLUS
CN 1-Propanone, 1-(2,4-dimethoxyphenyl)-3-[2-(1-piperidinylmethyl)-1H-benzimidazol-1-yl]- (9CI) (CA INDEX NAME)



RN 55416-77-8 CAPLUS
CN 1-Propanone, 3-[2-(1-piperidinylmethyl)-1H-benzimidazol-1-yl]-1-(3,4,5-trimethoxyphenyl)- (9CI) (CA INDEX NAME)



L6 ANSWER 24 OF 32 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1974:463551 CAPLUS
DOCUMENT NUMBER: 81:63551
TITLE: Benzimidazole series. V. Behavior of 2-methylene-1,3-dimethylbenimidazoline. Alkylation and acylation reaction
AUTHOR(S): Bourson, Jean
CORPORATE SOURCE: Lab. Chim. Gen., Conservatoire Natl. Arts Metiers, Paris, Fr.
SOURCE: Bulletin de la Societe Chimique de France (1974), (3-4, Pt. 2), 525-8
CODEN: BSCFAS; ISSN: 0037-8968
DOCUMENT TYPE: Journal
LANGUAGE: French
GI For diagram(s), see printed CA Issue.
AB The title compd. (I, X = CH2) underwent substitution with halides to give I [X = CHMe, CHCHMe2, CHCH2Ph, CHC6H3(NO2)2-2,4, CHI, 4,6-dichloro-1,3,5-triazin-2-ylmethylene, CHAc, CHBz, CHSO2Me, CAc2, CBz2, C(SO2Me)2], some of which were isolated as the 2-alkylbenzimidazolium salts. Dimeric acylation products were obtained with ClCO(CH2)nCOCl (n = 0,2).
IT **53397-82-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 53397-82-3 CAPLUS
CN 1H-Benzimidazolium, 1,3-dimethyl-2-(pyridiniomethyl)-, chloride iodide (9CI) (CA INDEX NAME)

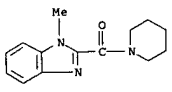


● Cl⁻

● I⁻

*** FRAGMENT DIAGRAM IS INCOMPLETE ***

L6 ANSWER 25 OF 32 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1973:136169 CAPLUS
DOCUMENT NUMBER: 78:136169
TITLE: Heteroaromatic N-oxides. XI. Aminolysis of esters of benzazole N-oxides and related quaternary salts
AUTHOR(S): Takahashi, Shiro; Hashimoto, Shinichiro; Kano, Hideo
CORPORATE SOURCE: Shionogi Res. Lab., Shionogi and Co., Ltd., Osaka, Japan
SOURCE: Chemical & Pharmaceutical Bulletin (1973), 21(2), 287-95
CODEN: CPBTAL; ISSN: 0009-2363
DOCUMENT TYPE: Journal
LANGUAGE: English
AB In connection with the abnormal reaction of Et 1-methyl-2-benzimidazolecarboxylate 3-oxide (I) with piperidine, aminolysis of related esters were investigated. The esters: I, 2-ethoxycarbonyl-1,3-dimethyl-benzimidazolium iodide, 2-methoxycarbonylmethyl-1,3-dimethyl-benzimidazolium iodide, Et 2-benzothiazolecarboxylate 3-oxide and 3-ethoxycarbonyl-3-methylbenzothiazolium perchlorate underwent abnormal aminolysis, partly or predominantly, not only with secondary amine (piperidine) but also with some primary amines, to give the corresponding carbamates. Et tribromo-acetate also underwent abnormal cleavage with some primary amines. Et 1-methyl-2-benzimidazolecarboxylate, Et 2-benzothi-azolecarboxylate, Et 2- and 4-pyridinecarboxylate N-oxide and 4-ethoxycarbonyl-1-methylpyridinium iodide reacted with both primary and secondary amines to yield only normal products, amides. Mechanisms accounting for the different behavior of the esters towards amines were discussed from electronic and steric points of view.
IT **41038-96-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 41038-96-4 CAPLUS
CN Piperidine, 1-[(1-methyl-1H-benzimidazol-2-yl)carbonyl]- (9CI) (CA INDEX NAME)



L6 ANSWER 26 OF 32 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1972:526628 CAPLUS
DOCUMENT NUMBER: 77:126628
TITLE: Pharmaceutical 1-cinnamylbenzimidazoles
INVENTOR(S): Fauran, Claude; Eberle, Jeannine; Raynaud, Guy; Bailly, Yves
PATENT ASSIGNEE(S): Delalande S. A.
SOURCE: Ger. Offen., 15 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2158801	A	19720622	DE 1971-2158801	19711126
DE 2158801	B2	19770127		
DE 2158801	C3	19770915		
FR 2115067	A5	19720707	FR 1970-42636	19701127
FR 2115067	B1	19740322		
CH 523889	A	19720615	CH 1971-523889	19711104
BE 775040	A1	19720508	BE 1971-110247	19711108
ZA 7107617	A	19720830	ZA 1971-7617	19711112
IL 38149	A1	19741129	IL 1971-38149	19711115
GB 1311419	A	19730328	GB 1971-53020	19711116
AU 7135877	A1	19730524	AU 1971-35877	19711118
CS 174851	P	19770429	CS 1971-8113	19711119
ES 397205	A1	19740501	ES 1971-397205	19711120
NL 7116314	A	19720530	NL 1971-16314	19711126
US 3758459	A	19730911	US 1971-202596	19711126
SU 432718	D	19740615	SU 1971-1718586	19711126
CA 955253	A1	19740924	CA 1971-128736	19711126
SE 378245	B	19750825	SE 1971-15183	19711126

PRIORITY APPLN. INFO.: FR 1970-42636 19701127

GI For diagram(s), see printed CA Issue.

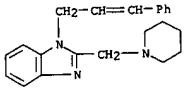
AB Twelve title compds. [I, R = Me, (CH2)3OH, CH2CHMeOH, CH2OH, C6H2(OMe)3-3,4,5, C6H4Cl-p, CH2C6H3(OEt)Cl-2,5, CH2C6H3(OMe)Cl-4,3, CH2NPr2, piperidinomethyl, morpholinomethyl, or 1-pyrrolidinylmethyl] were prepd. by reaction of II with ClCH2CH:CHPh (III). I had hypotensive, vasodilating, respiration analeptic, analgesic, antiinflammatory, spasmolytic, and diuretic effects in rats, guinea pigs, and mice. Thus, NaH in mineral oil was added to II (R = Me) in DMF at 40.degree.. III in DMF was added and the mixt. heated 20 min at 80.degree. to give 50% I (R = Me).

IT **37566-19-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 37566-19-1 CAPLUS

CN 1H-Benzimidazole, 1-(3-phenyl-2-propenyl)-2-(1-piperidinylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

L6 ANSWER 26 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)



● HCl

L6 ANSWER 27 OF 32 CAPLUS COPYRIGHT 2003 ACS

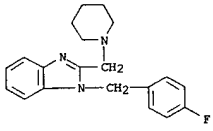
ACCESSION NUMBER: 1969:521707 CAPLUS
DOCUMENT NUMBER: 71:121707
TITLE: New substances with complement fixation inhibition action in vitro
AUTHOR(S): Muftic, Mahmoud
CORPORATE SOURCE: Hauptlab., Schering A.-G., Berlin, Fed. Rep. Ger.
SOURCE: Quarterly Journal of Crude Drug Research (1969), 9(3), 1422-5
CODEN: QJDRAZ; ISSN: 0033-5525
DOCUMENT TYPE: Journal
LANGUAGE: German

AB A screening method for the detection of compds. causing complement fixation inhibition in vitro adaptable to routine purposes is described. The required reagents are: 0.85% NaCl soln., 2.5% goat red cell suspension, Standard amboceptor Behring dild. 1:1000, and preserved guinea pig full complement Behring as standard. The method consists of a preliminary test, the complement evaluation, and the main test. In the preliminary test the compds. are tested for soly. and hemolysis with 1 ml. of red cells and 1 ml. of a 100 .gamma./ml. soln. of the test compd. The complement evaluation proceeds along generally accepted lines. The procedure for the main test was previously described. Visual evaluation of the results is possible, but evaluation with a Beckman spectrophotometer at 587 m.mu. is preferable. Results are given for tests on a no. of active compds. A Klebsiella polysaccharide and another polysaccharide were most active, 10 .gamma./ml. giving 50% complement fixation inhibition.

IT **24625-25-0**
RL: BIOL (Biological study)
(complement fixation inhibition by)

RN 24625-25-0 CAPLUS

CN Benzimidazole, 1-(p-fluorobenzyl)-2-(piperidinomethyl)-, monohydrochloride (8CI) (CA INDEX NAME)



● HCl

L6 ANSWER 28 OF 32 CAPLUS COPYRIGHT 2003 ACS

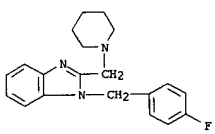
ACCESSION NUMBER: 1968:494769 CAPLUS
DOCUMENT NUMBER: 69:94769
TITLE: In vitro experiments to detect new substances which inhibit complement binding
AUTHOR(S): Lahr, A.; Muftic, M.
CORPORATE SOURCE: Hauptlab., Schering A.-G., Berlin, Fed. Rep. Ger.
SOURCE: Int. Congr. Chemother., Proc., 5th (1967), Volume 6, 191-6. Editor(s): Spitzy, K. H. Verlag Wiener Med. Akad.: Vienna, Austria.
CODEN: 20JJA4
DOCUMENT TYPE: Conference
LANGUAGE: German

AB The inhibition of complement binding produced by a series of new compds. was investigated in screening tests. The following CID50 values (the quantity (.mu.g./ml.) producing 50% inhibition of complement binding) were found: heparin sodium (U.S.P. XV 110,000 I.U./g.) 1.2; salicylidene-2-aminopyridine 50; N5-bromosalicylidene-2-aminopyridine 50; N-salicylidene-2-aminothiazole 100; 1-(p-chlorobenzyl)-2-(piperidinomethyl)-5-methoxybenzimidazole-HCL 100; 1-(p-isopropylbenzyl)-2-[ethyl-(.beta.-hydroxyethyl)aminomethyl]benzimidazole-HCl 100; 1-(p-nitrobenzyl)- 2 - (hexamethyleniminomethylene)benzimidazole - HCl 100; 22-amino-23,24-bisnor-5,17(20)-choladiene-3.beta.-ol-HCl 100; polysaccharide No. 13 (from H37Ra) 100; titriplex 100; 1-benzyl-2-hexamethyleniminomethylbenzimidazole-HCl 150; dl-3-guanidylimino- 5 -dehydro- 13-deisopropylhomodehydroabietinic acid acetate 150; 2-(.beta.-aminoethyl)-5-methylbenzimidazole 200; 1-(p-fluorobenzyl)-2-(piperidinomethyl)benzimidazole-HCl 200; 1-(p-methoxybenzyl)-2-(hexamethyleniminomethyl)benzimidazole-HCl 200; and 1-(p-fluorobenzyl)-2-(cyclohexamethylenimino)benzimidazole-HCL 200.

IT **21737-19-9**
RL: BIOL (Biological study)
(complement binding inhibition by)

RN 21737-19-9 CAPLUS

CN Benzimidazole, 1-(p-fluorobenzyl)-2-(piperidinomethyl)-, hydrochloride (8CI) (CA INDEX NAME)



●x HCl

L6 ANSWER 29 OF 32 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1968:95827 CAPLUS
DOCUMENT NUMBER: 68:95827
TITLE: Thiazolylalkyl- and 2-thiadiazolylalkylbenzimidazoles
PATENT ASSIGNEE(S): Chimetron S.a r.l.
SOURCE: Fr., 3 pp.
CODEN: FRXXAK
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 1476560		19670414	FR	19650805

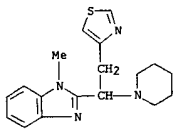
GI For diagram(s), see printed CA Issue.

AB A new class of biocides has been prepd. with general formula I. The title compds. are active as antihelmintics, fungicides, bactericides, and antiviral agents, can be formulated as feeds for animals or mixed with fertilizers for soil and plant systemic treatment. Thus, I (R1 = Me, R3NR4 is replaced by Cl, R = H, R2 = 4-thiazolyl, n = 0) was prepd. by treatment of 0.1 mole 1-methyl-2-[(4-thiazolyl)hydroxymethyl]benzimidazole (II) in MeCN with 0.04 mole PCl3, while the reaction temp. is kept <30.degree.; the same compd. was prepd. by reaction of II with SOCl2. In a similar way were made I (R1 = Me, R2 = 4,5-dimethyl-2-thiazolyl, R = R3 = R4 = H, n = 0) from 0.1 mole 1-methyl-2-[(4,5-dimethyl-2-thiazolyl)chloromethyl]benzimidazole and 300 cc. concd. NH4OH under moderate heating and by extn. of the product with CHCl3; I (R1 = Me, R3NR4 is replaced by Br, R = H, R2 = 4-thiazolyl, n = 0) from II and PBr3; I (R = H, R1 = Me, R2 = 4-thiazolyl, R3 = R4 = Et, n = 1) was prepd. by refluxing 0.1 mole 1-methyl-2-[1-chloro-2-(4-thiazolyl)ethyl]benzimidazole in MeCOEt and 0.1 mole anhyd. NaI; after filtration, 0.2 mole NHEt2 was added and reflux continued for 8 hrs. followed by distn. of the solvent; the residue extd. with boiling EtOH gave the product. Also prepd. were the following I (R, R1, R2, NR3R4 or its replacement, and n given): H, PhCH2, 2-phenyl-4-thiazolyl, Cl, 1; H, Ph, 1,2,3-thiadiazol-4-yl, Cl, 1; H, Me, 4-thiazolyl, piperidino, 1; H, allyl, 4-isothiazolyl, NMe2, 1, 5-NO2 deriv.; H, Me, 4-thiazolyl, morpholino, 1; H, H, 4-thiazolyl, NEt2, 2, 5,6-Cl2 deriv. No phys. or biol. data are re- ported.

IT **20254-02-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 20254-02-8 CAPLUS

CN Benzimidazole, 1-methyl-2-[1-piperidino-2-(4-thiazolyl)ethyl]- (8CI) (CA INDEX NAME)



L6 ANSWER 29 OF 32 CAPLUS COPYRIGHT 2003 ACS (Continued)

L6 ANSWER 30 OF 32 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1967:46373 CAPLUS
DOCUMENT NUMBER: 66:46373
TITLE: Benzimidazole N-oxides. VII. Reactivity of 1,2-dimethylbenzimidazole 3-oxide
AUTHOR(S): Takahashi, Shiro; Kano, Hideo
CORPORATE SOURCE: Shinogi Co., Ltd., Osaka, Japan
SOURCE: Chemical & Pharmaceutical Bulletin (1966), 14(11), 1219-27
CODEN: CPBTAL; ISSN: 0009-2363
DOCUMENT TYPE: Journal
LANGUAGE: English

GI For diagram(s), see printed CA Issue.

AB cf. CA 65, 5452h. A mixt. of 5 g. 2-O2NC6H4NMeAc, 60 ml. 99% EtOH, 4 ml. concd. HCl, and 1 g. 5% Pd-C shaken in a H atm. until 1.1 times theoretical H was absorbed, the mixt. filtered, the filtrate concd., and the residue neutralized gave 74% 1,2-dimethylbenzimidazole 3-oxide (I). I dihydrate (II) (0.26 g.) was treated with 0.12 ml. PCl3 in 2.5 ml. CHCl3 in (ice bath), the mixt. was refluxed 5 min., cooled, made alk. with NH3, and the org. layer was chromatographed over alumina to give 0.14 g. 1,2-dimethylbenzimidazole (III), m. 113-14.degree.. To a soln. prepd. from 0.2 g. K and 3 ml. MeOH under N, was added 0.6 g. (CO2Me)2, the soln. was stirred 15 min., treated with a soln. of 1.1 g. II in 3 ml. MeOH, stirred 30 min., kept 1 day, and evapd. The residue in H2O was neutralized with HCl, extd. with CHCl3, and evapd. to give 1.18 g. 2-methoxalymethyl-1-methylbenzimidazole 3-oxide, m. 199-200.degree. (decompn.). II (0.5 g.) and 10 ml. Ac2O heated 10 min. on a water bath gave 2-acetoxymethyl-1-methylbenzimidazole (IV), m. 68-9.degree. (iso-Pr2O). II (0.3 g.) in 6 ml. Ac2O was treated with 0.30 g. 60% HClO4 in 2 ml. Ac2O (ice bath) to yield 0.3 g. 3-acetoxy-1,2-dimethylbenzimidazolium perchlorate (V), m. 168-71.degree.. A mixt. of 0.15 g. V, 0.14 ml. Et3N, and 5 ml. MeCN refluxed 2 hrs., evapd., and the residue chromatographed on alumina yielded 0.06 g. IV, m. 68-9.degree.. To a soln. of 0.30 g. II in 10 ml. 10% aq. NaOH was added 0.35 ml. BzCl, and the mixt. filtered to give 0.25 g. 2-benzoyloxymethyl-1-methylbenzimidazole, m. 147-8.degree. (EtOH-EtOAc). II (0.6 g.) in 10 ml. CHCl3 was treated 0.41 ml. POCl3 (ice bath), the mixt. was refluxed 4 hrs., evapd., the residue was mixed with crushed ice, and neutralized with NaHCO3 to furnish 0.5 g. 6-chloro-1,2-dimethyl-benzimidazole (VI), m. 156-7.degree. (petroleum ether). II (0.3 g.) similarly treated with tosyl chloride afforded VI as a ppt. in 0.1 g. yield and chromatographic work-up of the filtrate gave 0.13 g. 2-chloromethyl-1-methylbenzimidazole, m. 93-5.degree.. Tosyl chloride (0.45 g.) was added to a soln. of 0.4 g. II in 4 ml. C5H5N, the soln. was heated 2 hrs. (water bath), and excess C5H5N removed to yield a pyridinium compd. (VII), isolated as 1-(1-methyl-2-benzimidazolemethyl)pyridinium picrate, m. 244-6.degree. (aq. alc.). The crude VII and 2 g. PhNH2.HCl heated 3 hrs. at 180.degree. under a stream of HCl, the resulting solid in H2O neutralized with NaHCO3, excess PhNH2 removed by steam distn., the residue extd. with CHCl3, and the ext. chromatographed over alumina gave 2-(anilinomethyl)-1-methylbenzimidazole, m. 148-50.degree.. A mixt. of 0.5 g. II, 3 g. KCN, 30 ml. H2O, and 30 ml. CHCl3 was treated with 0.5 ml. BzCl in 2 ml. CHCl3 (ice bath) to give 0.1 g. 1,2-dimethyl-6-benzimidazolecarbonitrile, m. 210-12.degree. (CCl4). Ac2O (0.5 g.) was added to 0.5 g. II and 2.5 ml. NCCH2CO2Me (ice bath), the mixt. was kept 30 min., and chromatographed on alumina to yield 0.05 g. Me 1,2-dimethyl-6-benzimidazolecyanoacetate, 255-7.degree. (Me2CO-iso-Pr2O), which on hydrolysis gave 1,2-dimethyl-6-benzimidazolacetic acid, m. >250.degree.. II (0.3 g.) in 5 ml. CHCl3 treated with 0.2 ml. PhNCO in 3 ml. CHCl3 yielded 0.3 g. 6-anilino-1,2-dimethylbenzimidazole (IX), m. 200-2.degree. (AcOH). A mixt. of 6 g. 5(6)-nitro-2-methylbenzimidazole and 3 ml. Me2SO4 was heated 1 hr. on a water bath, and 50 ml. 10% aq. NaOH was added to ppt. a mixt. of 5- and 6-nitro-1,2-dimethylbenzimidazole. This mixt. was dissolved in 100 ml. EtOH and hydrogenated over 0.3 g. Adams Pt. On completion of the redn. catalyst and solvent were removed, 15 ml. Ac2O was added, the mixt. was heated 20 min., concd. and the residue in H2O was neutralized with NH3 to give 1 g. 5-acetamido-1,2-dimethylbenzimidazole, m. 248-9.degree. (aq. alc.) as insol. product and 1.5 g. 6-acetamido-1,2-dimethylbenzimidazole (X), m. 220-5.degree. (H2O), was isolated from the filtrate. X (1.2 g.), 70 mg. KI, 70 mg. Cu powder, 0.9 g. K2CO3, and 10 g. PhBr refluxed 20 hrs. afforded 1.76 g. 6-acetanilido-1,2-dimethylbenzimidazole. To a soln. of 0.5 g. 1-ethyl-2-methylbenzimidazole 3-oxide (XI) and 0.3 g. III in 5 ml. CHCl3 was added 0.39 ml. PhNCO in 3 ml. CHCl3 (ice bath), and the mixt. was kept 30 min. at room temp. and concd. to yield 0.45 g. 6-anilino-1-ethyl-2-methyl-benzimidazole, also obtained in 0.25 g. yield from 0.3 g. XI dihydrate and 0.20 ml. PhNCO by the method described for the 1,2-dimethyl deriv. II (0.5 g.) and 0.45 ml. PhNC refluxed 6 hrs. in 6 ml. CHCl3 afforded on work-up 0.1 g. IX, m. 200-1.degree.. To a suspension of 0.5 g. II in 50 ml. liquid NH3 was added 0.12 g. NaNH2 followed by 0.35 g. iso-C5H11ONO, the mixt. was maintained at -50 to -60.degree. for 30 min., then held at its b.p. 2 hrs., the NH3 was boiled off, the residue was dissolved in H2O, and 0.4 g. 2-(hydroxyiminomethyl)-1-methylbenzimidazole 3-oxide, m. 266.degree. (decompn.) was pptd. by addn. of AcOH. The BF3 complex of I, m. 206-8.degree., was obtained in 0.45 g. yield when a CHCl3 soln. of 0.4 g. II was treated dropwise with 0.5 ml. BF3.Et2O complex.

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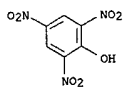
IT **14483-25-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 14483-25-1 CAPLUS

CN Pyridinium, 1-[(1-methyl-2-benzimidazolyl)methyl]-, picrate, monopicrate (8CI) (CA INDEX NAME)

CM 1

CRN 88-89-1
CMF C6 H3 N3 O7



CM 2

CRN 49730-59-8
CMF C14 H14 N3 . C6 H2 N3 O7

CM 3

CRN 46805-03-2
CMF C14 H14 N3

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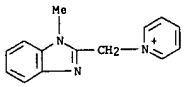
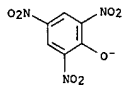


CM 4

CRN 14798-26-6
CMF C6 H2 N3 O7



L6 ANSWER 31 OF 32 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1965:90891 CAPLUS
DOCUMENT NUMBER: 62:90891
ORIGINAL REFERENCE NO.: 62:16230b-h,16231a-g
TITLE: Synthesis and reactions of mercaptoformamide chlorides
AUTHOR(S): Eilingsfeld, Heinz; Moebius, Leander
CORPORATE SOURCE: Badische Anilin-Soda-Fabrik A.-G., Ludwigshafen, Germany
SOURCE: Chem. Ber. (1965), 98(4), 1293-307
DOCUMENT TYPE: Journal
LANGUAGE: German
GI For diagram(s), see printed CA Issue.
AB The chlorination of N,N-disubstituted dithiocarbamates, RR'NCSR'' (I) yielded in a general reaction the corresponding II which are valuable intermediates for the syntheses of thiocarbamidate O- and S-esters, isothioureas, ketene S,N-acetals, 1,3,4- and 1,2,4-oxadiazoles, 1,3,4-thiadiazoles, 1,2,4-triazoles, benzimidazoles, benzoxazoles, and benzothiazoles. The formation of the 1,3,4-oxadiazoles served as an example to demonstrate that, depending on the basicity of the solvent used, either N- or S-functional heterocycles can be obtained. The appropriate I (1 mole) in an inert solvent treated at 20-30.degree. with at least 1.5-2 moles COCl2, kept several hrs. at room temp., and dild. with Et2O yielded the corresponding, strongly hygroscopic II the m.ps. of which are not characteristic. In this manner were prepd. the following II (R, R', R'', and % yield given): Me, Me, Me (III), 99; Me, Me, C12H25, 86; Me, Me, MeOCH2CH2, 97; Me, Me, MeO2CCH2CH2, 95; Me, Me, HC:CCH2, 99; Me, Me, p-MeC6H4, 95; Me, Me, MeO2C, 72; Pr, NCCH2CH2, Me, 76 (unstable); Ph, Me, Me, 75 (unstable); Ph, Ph, Me (IV), 87. Similarly were prepd. the following II [(RR' =)(CH 2)5] (R'' and % yield given): Me (V), 97; Bu, 94; cyclohexyl, (VI) 52; PhCH2 (VII), 56, NCCH2CH2 (VIII), 100; NC(CH2)3 (IX), 67; MeO2CCH2CH2 (X), 97; MeO2CCHMeCH2, 81. In the same manner was prepd. the morpholino analog of VIII in 93% yield. 2-Thioxo-3-methylthiazolidine (XI) (39.9 g.) in 200 cc. dry MePh treated 2 hrs. with COCl2 and kept 16 hrs. at room temp. yielded 42 g. XII, hygroscopic crystals. The appropriate I added with stirring to excess 20% aq. Na2CO3 and stirred 10 min. yielded the following XCOSR (X, R, % yield, and m.p. or b.p./mm. given): Me2N, Me, 94, 83-5.degree./23; Me2N, MeOCH2CH2, 83, 64-7.degree./0.2; Me2N, MeO2CCH2CH2, 89, 97-9.degree./0.15; MePhN, Me, 65, 37.degree. (b15 150-3.degree.); Ph2N, Me, 100, 82.degree.; Pr(NCCH2CH2)N, Me, 93, 103-4.degree./0.1; piperidino, Me, 90, 84-6.degree./5; piperidino, NCCH2CH2, 97, 42.degree.; morpholino, NCCH2CH2, 87, 91-3.degree.. Similarly was prepd. 3-methylthiazolid-2-one, 83%, b0.2 84-5.degree.. V (10.7 g.) in 50 cc. dry C6H6 treated dropwise with 4.7 g. PhNH2 and 10.1 g. Et3N in 20 cc. dry C6H6 and kept 2 hrs. at 40.degree. yielded 5.9 g. S-methyl-N,N-pentamethylene-N'-phenylisothiourea (XIII), b0.4 144-5.degree.. V (15 g.), 6.9 g. p-O2NC6H4NH2, and 50 cc. dry C5H5N heated 5 hrs. at 40.degree., and the cooled mixt. stirred into 75 cc. 20% aq. NaOH and 150 cc. Et2O yielded 8.9 g. N'-(p-O2NC6H4) analog of XIII, m. 77.degree. (ligroine). V (7.1 g.), 30 cc. dry C5H5N, and 4.9 g. 2-aminoanthraquinone heated 5 hrs. at 60.degree. yielded 6.8 g. N'-(2-anthraquinonyl) analog of XIII, m. 118.degree. (cyclohexane). p-MeC6H4SO2NH2 (5.1 g.), 30 cc. dry (C5H5N, and 10 g. V heated 5 hrs. at 50.degree. gave 4.4 g. N'-(p-tolylsulfonyl) analog of XIII, m. 112.degree. (cyclohexane). p-O2NC6H4NH2 (8 g.), 80 cc. dry C5H5N, and 10 g. XI kept 4 hrs. at 40.degree. and stirred into 4% aq. NaOH and CH2Cl2 gave 10 g. yellow-brown 2-(p-nitrophenylimino)-3-methyl-2-thiazolidine, m. 92.degree. (MeOH). CH2(CN)2 (13.2 g.), 200 cc. dry C5H5N, and 47.1 g. XIII heated 4

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hrs. at 70.degree., dild. with H2O, and basified with aq. Na2CO3 gave 11.2 g. 1-piperidino-2-methylthio-2,2-dicyanoethylene, m. 93-5.degree. (MeOH). IV (29.8 g.), 140 cc. dry C6H6, and 6.6 g. CH2(CN)2 treated dropwise with 10.1 g. Et3N and heated 4 hrs. at 40.degree. yielded 7 g. Ph2N(MeS)C:C(CN)2, m. 133-4.degree. (AcOEt). 2-C10H7OH (14.4 g.), 80 g. dry C5H5N, and 20 g. III heated 5 hrs. at 70.degree., dild. with H2O, and basified with aq. NaOH gave 8.5 g. 2-C10H7OCSNMe2 (XIV), m. 86-8.degree. (MeOH). 2-C10H7OH (14.4 g.), 80 cc. dry C5H5N, and 12.4 g. Me2NCS2Cl (XV) heated 0.5 hr. at 70.degree. and 2 hrs. at 80.degree. gave similarly 18.3 g. XIV, m. 87-9.degree. (MeOH). 2-Hydroxyanthraquinone (11.2 g.), 80 cc. dry C5H5N, and 12.2 g. III heated 4 hrs. at 70.degree. gave 11.2 g. O-(2-anthraquinonyl) N,N-dimethylthiocarbamate, m. 204-6.degree. (MeOCH2CH2OH), which was also obtained from 2-hydroxyanthraquinone with XV in C5H5N at 80.degree. in 67% yield. IV (14.9 g.), 90 cc. dry C6H6, and 6.8 g. BzNHNH2 treated dropwise with 5.1 g. Et3N and stirred 5 hrs. at 40.degree. gave 14 g. [BzNHNHC(:NPh2)SMe]Cl, m. 118-21.degree. (MeCN). p-O2NC6H4CONHNH2 (9.1 g.), 80 cc. dry C5H5N, and 12 g. V heated 2 hrs. at 70.degree. gave 7.3 g. 2-piperidino-5-(p-nitrophenyl)-1,3,4-oxadiazole (XVI), m. 176.degree. (EtOH). Hexahydrobenzhydrazide (14.2 g.), 100 cc. dry C5H5N, and 25 g. V heated 3 hrs. at 65.degree. yielded 16.5 g. 5-cyclohexyl analog of XVI, b0.35 150-60.degree., m. 70.degree. (ligroine). 1-Amino-anthraquinone-2-carboxylic acid hydrazide (XVII) (28.1 g.), 250 cc. dry C5H5N, and 28 g. X stirred 4 hrs. at 65.degree. gave 26.6 g. 2-dimethylamino-5-(1-amino-2-anthraquinonyl)-1,3,4-oxadiazole, red-brown, m. 275-7.degree. (.omicron.-C6H4Cl2). p-O2NC6H4CONHNH2 (XVIII), 600 cc. N-methylpyrrolidine (XIX), and 130 g. V heated 3 hrs. at 70.degree. gave 90 g. 2-methylthio-5-(p-nitrophenyl)-1,3,4-oxadiazole (XX), m. 155.degree. (EtOH). Isonicotinic hydrazide (27 g.), 120 cc. XIX, and 43 g. V heated 4 hrs. at 65.degree. yielded 16.5 g. 5-(4-pyridyl) analog of XX, m. 102-3.degree. (EtOH). p-C6H4(CONHNH2)2 (19.4 g.), 100 cc. XIX, and 60 g. V gave similarly during 5 hrs. 20.6 g. 1,4-bis(2-methylthio-1,3,4-oxadiazol-5-yl)-benzene, m. 202.degree. (MeOCH2CH2OH). XVII (19.7 g.), 70 cc. XIX, and 24 g. IX heated 4 hrs. at 65.degree. yielded 21.5 g. 2-(3-cyanopropylthio)-5-(1-amino-2-anthraquinonyl)-1,3,4-oxadiazole (XXI), red, m. 221-3.degree. (o-C6H4Cl2). XVII (20 g.), 100 cc. XIX, and 21 g. VII stirred 4 hrs. at 25.degree. yielded 16.5 g. red 2-PhCH2S analog of XXI, m. 210.degree. (.omicron.-C6H4Cl2). 4-NO2 deriv. (26 g.) of XVII, 150 cc. XIX, and 23 g. VI gave similarly 22.5 g. orange-red 2-cyclohexylthio-5-(1-amino-2-nitro-2-anthraquinonyl)-1,3,4-oxadiazole, m. 242-4.degree. (MeOCH2CH2OH). Isonicotinamidoxime (XXII) (16 g.), 80 cc. XIX, and 32 g. V heated 5 hrs. at 70.degree. yielded 6.6 g. 5-methylthio-3-(4-pyridyl)-1,2,4-oxadiazole (XXIII), m. 75.degree. (ligroine). XXII (13.7 g.), 140 cc. dry C5H5N, and 23 g. V heated 6 hrs. at 70.degree. gave 16 g. 5-piperidino analog of XXIII, m. 94-5.degree. (ligroine). p-O2NC6H4C(:NOH)NH2 (9.1 g.), 60 cc. dry C5H5N, and 15 g. V heated 4 hrs. at 65.degree. yielded 7.3 g. 5-piperidino-3-(p-nitrophenyl)-1,2,4-oxadiazole, m. 159.degree. (MeCN). PhNHCSNHNH2 (26 g.), 200 cc. dry C5H5N, and 39.5 g. VIII heated 6 hrs. at 65.degree. gave 24 g. 2-anilino-5-piperidino1,3,4-thiadiazole, m. 180.degree. (PrOH). Anthraquinone-2-carboxylic acid hydrazide 3-chlorophenylamide (37.6 g.), 150 cc. dry C5H5N, and 29.1 g. VIII heated 4 hrs. at 70.degree., cooled, and acidified with dil. HCl yielded 29.8 g. 3-piperidino-4-(m-chlorophenyl)-5-(2-anthraquinonyl)-1,2,4-triazole-HCl, m. 268-71.degree. (PhNO2). The appropriate aromatic .omicron.-diamine (0.1 mole), 100-150 cc. dry C5H5N, and 0.12 mole suitable II heated 5 hrs. at the temp. indicated, dild. with H2O, and basified with Na2CO3 gave the corresponding N,N-disubstituted 2-aminobenzimidazoles. In this manner were prepd. the following compds. (m.p., % yield, and reaction temp. given): 2-dimethylaminobenzimidazole (XXIV), 302.degree. (HCONMe2), 57, 65.degree. (7 hrs.); 2-piperidinobenzimidazole (XXV), 270-2.degree.

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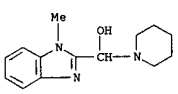
(MeCN), 67, 75.degree.; 5-Me deriv. of XXV, 168.degree. (MeCN), 64, 65.degree.; 4,5-phthaloyl deriv. of XXV, 260-2.degree. (MeOCH2CH2OH), 55, 65.degree.; 4,5-phthaloyl deriv. of XXIV, 298-300.degree. (PhNO2), 57, 65.degree.. The appropriate .omicron.-aminophenol (0.1 mole) and 0.11-0.12 mole suitable II in 100-150 cc. dry C5H5N heated at 70.degree. yielded the corresponding benzoxazole. In this manner were prepd. the following compds. (m.p., % yield, and reaction time in hrs. given): 2-piperidinobenzoxazole (XXVI), 70-1.degree. (petr. ether), 55, 7; 5-NO2 deriv. of XXVI (yellow-brown), 120-2.degree. (MeCN), 67, 4; 2-morpholino-5-methylbenzoxazole, 110.degree. (ligroine), 57, 4; 4,5-phthaloyl deriv. of XXVI, 208-10.degree. (MeOCH2CH2OH), 85, 3 (2 hrs. at 90.degree.); 5,6-phthaloyl deriv. of XXVI, 258-60.degree. (MeOCH2CH2OH), 90, 7. .omicron.-H2NC5H4SH.HCl (9.7 g.), 70 cc. dry C5H5N, and 16.5 g. VIII heated 5 hrs. at 65.degree. gave 6.6 g. 2-piperidinobenzothiazole (XXVII), m. 92.degree. (MeCN). 2-Amino-1-mercaptoanthraquinone (25.5 g.), 100 cc. dry C5H5N, and 35 g. VIII heated 3 hrs. at 70.degree. and 2 hrs. at 90.degree. gave 28.1 g. 6,7-phthaloyl deriv. of XXVII, orange-yellow, m. 216-17.degree. (MeOCH2CH2OH). 2,4-H2N(O2N)C6H3OH (15.4 g.), 100 cc. XIX, and 22 g. V heated 4 hrs. at 65.degree. gave 11.5 g. 5-nitro-2-methylthiobenzoxazole, m. 161.degree. (MeCN). 2-Amino-3-hydroxyanthraquinone (23.9 g.), 80 cc. XIX, and 19.2 g. III heated 5 hrs. at 70.degree. gave 11.8 g. 2-methylthio-5,6-phthaloylbenzoxazole, m. 228.degree. (MeOCH2CH2OH).

IT **3013-04-5**, 2-Benzimidazolemethanol, 1-methyl-.alpha.-piperidino- (prepn. of)

RN 3013-04-5 CAPLUS

CN 2-Benzimidazolemethanol, 1-methyl-.alpha.-piperidino- (7CI, 8CI) (CA INDEX NAME)



L6 ANSWER 32 OF 32 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1965:90890 CAPLUS
DOCUMENT NUMBER: 62:90890
ORIGINAL REFERENCE NO.: 62:16229b-h,16230a-b
TITLE: Benzimidazole-2-carboxaldehyde
AUTHOR(S): Hensel, Hans R.
CORPORATE SOURCE: Badische Anilin-Soda-Fabrik A.-G., Ludwigshafen, Germany
SOURCE: Chem. Ber. (1965), 98(4), 1325-34
DOCUMENT TYPE: Journal
LANGUAGE: German
GI For diagram(s), see printed CA Issue.
AB Benzimidazole-2-carboxaldehydes with unsubstituted imide-H yielded by reaction with aliphatic and cycloaliphatic secondary amines cryst. compds. which can be regarded as aminals with a pentacyclic structure. Benzimidazole-2-carboxaldehyde (I) in comparison with its N-Me deriv. (II) appears to exist in the cyclic semiaminal structure III. .omicron.-C6H4(NH2)2 (IV) (21.6 g.) and 52 g. (BuO)2CHCO2Bu added to 9 g. Na in 250 cc. abs. EtOH, distd. to dryness, and heated 2 hrs. at 150.degree. yielded 35 g. dibutyl acetal of I, m. 128.degree. (EtOH). The diethyl acetal of I, m. 173.degree., was prepd. similarly using (EtO)2CHCO2Et. IV (324 g.) in 2.7 l. 20% HCl refluxed 20 hrs. with 516 g. CHCl2CO2H yielded 496 g. 2-dichloromethylbenzimidazole-HCl (V.HCl), m. 169-71.degree.. Crude I (29.2 g.), obtained by the hydrolysis of V.HCl with excess aq. AcONa at pH 6 and 80-90.degree., heated 0.5 hr. at 80-100.degree. with 100 cc. HCONMe2 and 100 cc. 40% aq. NaHSO3, and dild. with 500 cc. hot H2O gave 35 g. VI, sinters at 195-200.degree. without melting. VI dissolved in aq. NaOH and acidified gave I, m. 234.degree.. I (2.9 g.) in 50 cc. HCONMe2 treated dropwise at 80-100.degree. with aq. KCN gave 2.5 g. deep yellow VII (R = H) (VIII), m. 217.degree.. VI (2.5 g.) and 0.5 g. KCN in 50 cc. 50% EtOH heated 10 min. on a steam bath gave 1.2 g. VIII, m. 219.degree.. II (1 g.) in 20 cc. EtOH heated 10 min. with 0.1 g. KCN in 2 cc. H2O yielded VII (R = Me), prisms, m. 271-2.degree. with sublimation at 210.degree. to rodlets (decompn.); the crystals are strongly pleochroitic from pale yellow to orange under the polarization microscope and show in incident light reversible thermochromic properties turning at 200.degree. to scarlet-red. V.HCl (24 g.) and 7 g. NH2OH.HCl refluxed 3 hrs. in 300 cc. 30% EtOH and adjusted with aq. AcONa to pH 6 yielded 15 g. oxime of I, needles, m. 287-8.degree. with sublimation to rodlets at 210-15.degree. (1:2 EtOH-C6H6). I (14.8 g.) in 50 cc. piperidine heated 1 hr. at 70-80.degree. yielded 15 g. IX (X = piperidino, R = H) (X), m. 232.degree. (decompn.) (CHCl3-Me2CO) (method A). V.HCl (72 g.) in 100 cc. EtOH treated dropwise at 50.degree. during 0.5 hr. with 140 g. Et2NH and stirred 1 hr. at 50.degree. yielded 35 g. IX (X = Et2N, R = H) (XI), m. 189.degree. (decompn.) (CHCl3-Me2CO) (method B), also obtained by method A in 67% yield. Similarly were prepd. the following IX (X, R, m.p., and % yields by methods A and B given): Me2N, H, 220-2.degree., --, 63; Pr2N, H, 198-9.degree. (decompn.), 42, 72; Bu2N, H (XII) 208.degree., 48, 69; pyrrolidino (XIII), H, 203-5.degree., --, 82; morpholino, H, 256.degree. (decompn.), --, 61; piperidino, Cl, 239.degree. (decompn.), 64, --; Et2N, Cl, 191.degree. (decompn.), 64, --. X was obtained by method B in 70% yield. XI (4 g.) added at 20.degree. to 100 cc. 50% AcOH yielded 3.5 g. I, m. 234.degree.. XII (2.7 g.) and 1.1 g. PhNHNH2 in 100 cc. 50% AcOH heated 10 min. with 5 cc. concd. HCl at 50-60.degree. gave 2.5 g. phenylhydrazone of I.HCl, m. 275.degree. (decompn.). XI (20 g.) in 300 cc. 10% NaOH-MeOH refluxed 2 hrs. yielded 7 g. di-Na salt of benzimidazole-2-carboxylic acid-H2O; a 4-g. portion in 30

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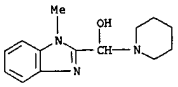
cc. H2O treated with 17.5 cc. N HCl gave 3 g. free acid, m. 170.degree. (decompn.), which treated with 200 cc. CH2N2-Et2O from 7 g. H2NCONMeNO gave the Me ester, m. 88.degree. (C6H6-cyclohexane). XII (15.4 g.) in 300 cc. MeOH and 300 cc. tetrahydrofuran hydrogenated 2 hrs. at 25.degree. over 25% Pd-BaSO4 yielded 15 g. 2-dibutylaminomethylbenzimidazole, m. 133.degree., also obtained from 4.5 g. 2-chloromethylbenzimidazole and 10 g. Bu2NH in 30 cc. EtOH during 2 hrs. at 50-60.degree.. XIII (10 g.) in 200 cc. 1:1 MeOH-tetrahydrofuran hydrogenated 50 min. over 15 g. 5% Pd-BaSO4 yielded 10 g. 2-pyrrolidinomethylbenzimidazole (XIV), m. 144.degree.. I (35 g.) in 200 cc. pyrrolidine hydrogenated at 40-50.degree./20 atm. over Raney Ni yielded 32 g. XIV. .omicron.-MeNHC6H4NH2 (61 g.) and 38 g. tartaric acid refluxed 2 days in 250 g. 40% H2SO4 gave 71 g. bis(N-methyl-2-benzimidazolyl) glycol (XV), m. 261.degree.. XV (64.4 g.), 200 cc. AcOH, and 400 cc. C6H6 treated with stirring at 0-5.degree. during 1 hr. with 100 g. Pb(OAc)4 and stirred 2 hrs. at room temp. yielded 54.5 g. II, m. 123.5.degree. (cyclohexane); oxime m. 223-4.degree. (30% EtOH); thiosemicarbazone m. 258.degree. (decompn.) (5:1 HCONMe2-H2O). Ag2O from 17 g. AgNO3 and 8 g. NaOH in 250 cc. H2O added in portions with stirring at 0-5.degree. to 8 g. II and kept overnight yielded 6.7 g. Na salt of N-methylbenzimidazole-2-carboxylic acid. II (2.4 g.) in 150 cc. Et2O treated with shaking with 2 cc. piperidine and kept 10 min. yielded 3.5 g. piperidino-N-methyl-2-benzimidazolylcarbinol (XVI), m. 108.degree. (1:5 EtOH-H2O). II with pyrrolidine in Et2O gave similarly the pyrrolidino analog of XVI, m. 99-100.degree.. The ir spectra of I (III) and II are recorded.
IT **3013-04-5**, 2-Benzimidazolemethanol, 1-methyl-.alpha.-piperidino- (prepn. of)
RN 3013-04-5 CAPLUS
CN 2-Benzimidazolemethanol, 1-methyl-.alpha.-piperidino- (7CI, 8CI) (CA INDEX NAME)



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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	146.82	331.28

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-20.83	-20.83

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Inventor Name Search Result

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Last Name = SIN
First Name = NY

Application#	Patent#	Status	Date Filed	Title	Inventor Name
09569748	Not Issued	080	05/11/2000	ENZYME INHIBITION	SIN, NY
60263363	Not Issued	020	01/22/2001	IMIDAZOPYRIDINE AND IMIDAZOPYRIMIDINE ANTIVIRAL AGENTS	SIN, NY
09840279	6489338	150	04/23/2001	IMIDAZOPYRIDINE AND IMIDAZOPYRIMIDINE ANTIVIRAL AGENTS	SIN, NY
60211447	Not Issued	020	06/13/2000	IMIDAZOPYRIDINE AND IMIDAZOPYRIMIDINE ANTIVIRAL AGENTS	SIN, NY
09994012	Not Issued	071	11/16/2001	HETEROCYCLIC SUBSTITUTED 2-METHYL-BENZIMIDAZOLE ANTIVIRAL AGENTS	SIN, NY
60382055	Not Issued	020	05/20/2002	HEPATICS C VIRUS INHIBITORS	SIN, NY
60257139	Not Issued	020	12/20/2000	HETEROCYCLIC SUBSTITUTED 2-METHYL-BENZIMIDAZOLE ANTIVIRAL AGENTS	SIN, NY

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Inventor Name Search Result

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Last Name = WANG
First Name = XIANGDONG

Application#	Patent#	Status	Date Filed	Title	Inventor Name
60263363	Not Issued	020	01/22/2001	IMIDAZOPYRIDINE AND IMIDAZOPYRIMIDINE ANTIVIRAL AGENTS	WANG, XIANGDONG
09840279	6489338	150	04/23/2001	IMIDAZOPYRIDINE AND IMIDAZOPYRIMIDINE ANTIVIRAL AGENTS	WANG, XIANGDONG
60211447	Not Issued	020	06/13/2000	IMIDAZOPYRIDINE AND IMIDAZOPYRIMIDINE ANTIVIRAL AGENTS	WANG, XIANGDONG
60235804	Not Issued	020	09/27/2000	BENZIMIDAZOLONE ANTIVIRAL AGENTS	WANG, XIANGDONG
09952736	6506738	150	09/14/2001	BENZIMIDAZOLONE ANTIVIRAL AGENTS	WANG, XIANGDONG
09994012	Not Issued	071	11/16/2001	HETEROCYCLIC SUBSTITUTED 2-METHYL-BENZIMIDAZOLE ANTIVIRAL AGENTS	WANG, XIANGDONG
60382055	Not Issued	020	05/20/2002	HEPATICS C VIRUS INHIBITORS	WANG, XIANGDONG
60257139	Not Issued	020	12/20/2000	HETEROCYCLIC SUBSTITUTED 2-METHYL-BENZIMIDAZOLE ANTIVIRAL AGENTS	WANG, XIANGDONG
60339025	Not Issued	020	12/10/2001	SUBSTITUTED 2-METHYL-BENZIMIDAZOLE RESPIRATORY SYNCYTIAL VIRUS ANTIVIRAL AGENTS	WANG, XIANGDONG
10309505	Not Issued	019	12/04/2002	SUBSTITUTED 2-METHYL-BENZIMIDAZOLE RESPIRATORY SYNCYTIAL VIRUS ANTIVIRAL AGENTS	WANG, XIANGDONG

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Inventor Name Search Result

Your Search was:

Last Name = MEANWELL
First Name = NICHOLAS

Application#	Patent#	Status	Date Filed	Title	Inventor Name
07580021	Not Issued	166	09/10/1990	OXAZOLE DERIVATIVES	MEANWELL , NICHOLAS A.
08047738	5362879	150	04/15/1993	4-5-DIPHENYLOXAZOLE DERIVATIVES AS INHIBITORS OF BLOOD PLATELET AGGREGATION	MEANWELL , NICHOLAS A.
08477047	5565483	150	06/07/1995	3-SUBSTITUTED OXINDOLE DERIVATIVES AS POTASSIUM CHANNEL MODULATORS	MEANWELL , NICHOLAS A.
09354958	Not Issued	161	07/16/1999	SUBSTITUTED BENZIMIDAZOLE ANTIVIRAL AGENTS	MEANWELL , NICHOLAS A.
08059519	5262540	150	05/10/1993	[2(4,5-DIARYL-2 OXAZOYL SUBSTITUTED PHENOXY ALKANOIC ACID AND ESTERS	MEANWELL , NICHOLAS A.
60022983	Not Issued	159	07/31/1996	DIPHENYL HETEROCYCLES AS POTASSIUM CHANNEL MODULATORS	MEANWELL , NICHOLAS A.
06832212	4668686	150	02/26/1986	IMIDAZOOUINOLINE ANTITHROMBROGENIC CARDIOTONIC AGENTS	MEANWELL , NICHOLAS A.
07624822	5071866	150	12/10/1990	ARYLPYRAZOLE DERIVATIVES AS ANTI-PLATELET AGENTS	MEANWELL , NICHOLAS A.
07862680	5254576	150	04/03/1992	DIPHENYL-HETEROCYCLIC-OXAZOLE AS PLATELET AGGREGATION INHIBITORS	MEANWELL , NICHOLAS A.
08092402	5380854	150	07/14/1993	DIPHENYL-HETEROCYCLIC-OXAZOLE AS PLATELET AGGREGATION INHIBITORS	MEANWELL , NICHOLAS A.
07863278	5158958	150	04/03/1992	IMIDAZO[4,5--B]QUINOLINYL OXY ALKYL SULFONYL PIPERIDINE DERIVATIVES	MEANWELL , NICHOLAS A.
07862902	5348969	150	04/03/1992	DIPHENYLOXAZOLYL-	MEANWELL ,

				OXAZOLES AS PLATELET AGGREGATION INHIBITORS	NICHOLAS A.
07862899	5196428	150	04/03/1992	IMIDAZO[4,5-B]QUINOLINYL OXY ALKYL UREAS	MEANWELL , NICHOLAS A.
07862879	5208237	150	04/03/1992	7-OXYPROPYLSULFONAMIDO-IMIDAZO[4,5-B]QUINOLIN-2-ONES	MEANWELL , NICHOLAS A.
07862682	Not Issued	161	04/03/1992	IMIDAZO[4,5-B] QUINOLINYL OXY ALKYL TETRAZOLYL PIPERIDINE DERIVATIVES	MEANWELL , NICHOLAS A.
07862674	5187188	150	04/03/1992	OXAZOLE CARBOXYLIC ACID DERIVATIVES	MEANWELL , NICHOLAS A.
07387749	Not Issued	164	07/31/1989	ARYLPYRAZOLE DERIVATIVES AS ANTI-PLATELET AGENTS	MEANWELL , NICHOLAS A.
60031105	Not Issued	159	11/26/1996	4-ARYL-3-HYDROXYQUINOLIN-2-ONE DERIVATIVES AS ION CHANNEL MODULATORS	MEANWELL , NICHOLAS A.
09994012	Not Issued	071	11/16/2001	HETEROCYCLIC SUBSTITUTED 2-METHYL-BENZIMIDAZOLE ANTIVIRAL AGENTS	MEANWELL, NICHOLAS
60257139	Not Issued	020	12/20/2000	HETEROCYCLIC SUBSTITUTED 2-METHYL-BENZIMIDAZOLE ANTIVIRAL AGENTS	MEANWELL, NICHOLAS
60339025	Not Issued	020	12/10/2001	SUBSTITUTED 2-METHYL-BENZIMIDAZOLE RESPIRATORY SYNCYTIAL VIRUS ANTIVIRAL AGENTS	MEANWELL, NICHOLAS
10309505	Not Issued	019	12/04/2002	SUBSTITUTED 2-METHYL-BENZIMIDAZOLE RESPIRATORY SYNCYTIAL VIRUS ANTIVIRAL AGENTS	MEANWELL, NICHOLAS
60235804	Not Issued	020	09/27/2000	BENZIMIDAZOLONE ANTIVIRAL AGENTS	MEANWELL, NICHOLAS A
60211900	Not Issued	020	06/16/2000	DIOXOBUTYRIC ACID DERIVATIVES	MEANWELL, NICHOLAS A.
60266183	Not Issued	020	02/02/2001	COMPOSITION AND ANTIVIRAL ACTIVITY OF SUBSTITUTED AZAINDOLEOXOACETIC PIPERAZINE DERIVATIVES	MEANWELL, NICHOLAS A.
60263363	Not Issued	020	01/22/2001	IMIDAZOPYRIDINE AND IMIDAZOPYRIMIDINE ANTIVIRAL AGENTS	MEANWELL, NICHOLAS A.
09840279	6489338	150	04/23/2001	IMIDAZOPYRIDINE AND	MEANWELL,

				IMIDAZOPYRIMIDINE ANTIVIRAL AGENTS	NICHOLAS A.
60286347	Not Issued	020	04/25/2001	INDOLE, AZAINDOLE AND RELATED HETEROCYCLIC AMIDOPIPERAZINE DERIVATIVES	MEANWELL, NICHOLAS A.
60356977	Not Issued	020	02/14/2002	INDOLE, AZAINDOLE AND RELATED HETEROCYCLIC PYRROLIDINE DERIVATIVES	MEANWELL, NICHOLAS A.
60314406	Not Issued	020	08/23/2001	COMPOSITION AND ANTIVIRAL ACTIVITY OF SUBSTITUTED AZAINDOLEOXOACETIC PIPERAZINE DERIVATIVES	MEANWELL, NICHOLAS A.
09952736	6506738	150	09/14/2001	BENZIMIDAZOLONE ANTIVIRAL AGENTS	MEANWELL, NICHOLAS A.
10027612	Not Issued	090	12/19/2001	COMPOSITION AND ANTIVIRAL ACTIVITY OF SUBSTITUTED INDOLEOXOACETIC PIPERAZINE DERIVATIVES	MEANWELL, NICHOLAS A.
10038306	Not Issued	030	01/02/2002	COMPOSITION AND ANTIVIRAL ACTIVITY OF SUBSTITUTED AZAINDOLEOXOACETIC PIPERAZINE DERIVATIVES	MEANWELL, NICHOLAS A.
60257278	Not Issued	020	12/20/2000	SUBSTITUTED BENZIMIDAZOLE AND AZABENZIMIDAZOLE PIPERAZINE DERIVATIVES	MEANWELL, NICHOLAS A.
09538520	6271249	150	03/29/2000	DIPHENYL OXADIAZOLONES AS POTASSIUM CHANNEL MODULATORS	MEANWELL, NICHOLAS A.
09765189	Not Issued	161	01/18/2001	ANTIVIRAL AZAINDOLE DERIVATIVES	MEANWELL, NICHOLAS A.
60265978	Not Issued	020	02/02/2001	COMPOSITION AND ANTIVIRAL ACTIVITY OF SUBSTITUTED INDOLEOXOACETIC PIPERAZINE DERIVATIVES	MEANWELL, NICHOLAS A.
60184004	Not Issued	159	02/22/2000	ANTIVIRAL AZAINDOLE DERIVATIVES	MEANWELL, NICHOLAS A.
60383509	Not Issued	020	05/28/2002	INDOLE, AZAINDOLE AND RELATED HETEROCYCLIC 4-ALKENYL PIPERIDINE AMIDES	MEANWELL, NICHOLAS A.

60376731	Not Issued	020	05/01/2002	BICYCLO 4.4.0 ANTIVIRAL DERIVATIVES	MEANWELL, NICHOLAS A.
10289829	Not Issued	020	11/07/2002	SUBSTITUTED BENZIMIDAZOLE ANTIVIRAL AGENTS	MEANWELL, NICHOLAS A.
10268350	Not Issued	020	10/10/2002	ANTIVIRAL AZAINDOLE DERIVATIVES	MEANWELL, NICHOLAS A.
10254365	Not Issued	040	09/25/2002	HIV INTEGRASE INHIBITORS	MEANWELL, NICHOLAS A.
10214982	Not Issued	020	08/07/2002	COMPOSITION AND ANTIVIRAL ACTIVITY OF SUBSTITUTED AZAINDOLEOXOACETIC PIPERAZINE DERIVATIVES	MEANWELL, NICHOLAS A.
09912710	6476034	150	07/25/2001	ANTIVIRAL AZAINDOLE DERIVATIVES	MEANWELL, NICHOLAS A.
60211447	Not Issued	020	06/13/2000	IMIDAZOPYRIDINE AND IMIDAZOPYRIMIDINE ANTIVIRAL AGENTS	MEANWELL, NICHOLAS A.
60217444	Not Issued	020	07/10/2000	COMPOSITION AND ANTIVIRAL ACTIVITY OF SUBSTITUTED INDOLEOXOACETIC PIPERAZINE DERIVATIVES	MEANWELL, NICHOLAS A.
60217448	Not Issued	020	07/10/2000	COMPOSITION AND ANTIVIRAL ACTIVITY OF SUBSTITUTED AZAINDOLEOXOACETIC PIPERAZINE DERIVATIVES	MEANWELL, NICHOLAS A.
09883902	Not Issued	161	06/18/2001	HIV INTEGRASE INHIBITORS	MEANWELL, NICHOLAS A.
09888686	Not Issued	161	06/25/2001	COMPOSITION AND ANTIVIRAL ACTIVITY OF SUBSTITUTED INDOLEOXOACETIC PIPERAZINE DERIVATIVES	MEANWELL, NICHOLAS A.

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Application#	Patent#	Status	Date Filed	Title	Inventor Name
08092402	5380854	150	07/14/1993	DIPHENYL-HETEROCYCLIC-OXAZOLE AS PLATELET AGGREGATION INHIBITORS	MEANWELL , NICHOLAS A.
08105260	Not Issued	161	08/12/1993	OXAZOLE DERIVATIVES	MEANWELL , NICHOLAS A.
08972280	5892045	150	11/18/1997	4-ARYL-3-HYDROXYQUINOLIN-2-ONE DERIVATIVES AS ION CHANNES MODULATORS	MEANWELL , NICHOLAS A.
09166273	5922735	150	10/05/1998	4-ARYL-3-HYDROXYQUINOLIN-2-ONE DERIVATIVES AS ION CHANNEL MODULATORS	MEANWELL , NICHOLAS A.
60093387	Not Issued	159	07/20/1998	SUBSTITUTED BENZIMIDAZOLE ANTIVIRAL AGENTS	MEANWELL , NICHOLAS A.
06866813	4775674	150	05/23/1986	IMIDAZOQUINOLINYLETHER DERIVATIVES USEFUL AS PHOSPHODIESTERASE AND BLOOD PLATELET AGGREGATION INHIBITORS	MEANWELL , NICHOLAS A.
06883258	4701459	150	07/08/1986	7- AMINO-13- DIHYDRO-2H-IMIDAZO [4,5-6] QUINOLIN2-ONES AND MEATHOD FOR INHIBITING PHOS PHODIESTERASE AND BLOOD PLATELET AGGREGATIN	MEANWELL , NICHOLAS A.
07430228	4943573	150	11/01/1989	IMIDAZO(4,5-B) QUINOLINYLOXYALKANOIC ACID AMIDES WITH ENHANCED WATER SOLUBILITY	MEANWELL , NICHOLAS A.
07453548	Not Issued	161	12/20/1989	OXAZOLE DERIVATIVES	MEANWELL , NICHOLAS A.
08114262	5348960	150	08/30/1993	IMIDAZO[4,5-B] QUINOLINYL	MEANWELL ,

				OXY ALKYL TETRAZOLYL PIPERIDINE DERIVATIVES	NICHOLAS A.
09197887	6077861	150	11/23/1998	DIPHENYL TRIAZOLES AS POTASSIUM CHANNEL MODULATORS	MEANWELL , NICHOLAS A.
06913041	Not Issued	161	09/29/1986	PROCESS FOR THE PREPARATION OF 5-ARYLIDENE AND ALKYLIDENE-SUBSTITUTED HYDANTOINS	MEANWELL , NICHOLAS A.
07479505	4956379	150	02/13/1990	PYRAZOLE CARBOXYLIC ACIDS AND ESTERS AND INHIBITION OF BLOOD PLATELET AGGREGATION THEREWITH	MEANWELL , NICHOLAS A.
07479506	Not Issued	164	02/13/1990	IMIDAZOLE CARBOXYLIC ACIDS AND ESTERS AND INHIBITION OF BLOOD PLATELET AGGREGATION THEREWITH	MEANWELL , NICHOLAS A.
07479507	5034409	150	02/13/1990	PYRROLE CARBOXYLIC ACIDS AND ESTERS FOR BLOOD PLATELET AGGREGATION INHIBITION	MEANWELL , NICHOLAS A.
07479508	4992439	150	02/13/1990	PYRIDAZINE CARBOXYLIC ACIDS AND ESTERS	MEANWELL , NICHOLAS A.
07479559	4956376	150	02/13/1990	TETRAZOLE CARBOXYLIC ACIDS AND ESTERS AND INHIBITION OF BLOOD PLATELET AGGREGATION THEREWITH	MEANWELL , NICHOLAS A.
07479560	5077305	150	02/13/1990	THIAZOLE CARBOXYLIC ACIDS AND ESTERS	MEANWELL , NICHOLAS A.
07479561	4983610	150	02/13/1990	PYRIMIDINE CARBOXYLIC ACIDS AND ESTERS	MEANWELL , NICHOLAS A.
07479563	5021415	150	02/13/1990	TRIAZINE CARBOXYLIC ACIDS AND ESTERS	MEANWELL , NICHOLAS A.
07479564	4970225	150	02/13/1990	IMIDAZOLIDINE CARBOXYLIC ACIDS AND ESTERS AS BLOOD PLATLET AGGREGATION INHIBITORS	MEANWELL , NICHOLAS A.
06726869	Not Issued	161	04/25/1985	IMIDAZOQUINOLINE ANTITHROMBOGENIC CARDIOTONIC AGENTS	MEANWELL , NICHOLAS A.
07523637	4994482	150	05/10/1990	ARYLPYRAZOLE DERIVATIVES AS ANTI-PLATELET AGENTS,	MEANWELL , NICHOLAS A.

				COMPOSITIONS AND USE	
08417180	5559248	150	04/05/1995	RETINOID-LIKE HETEROCYCLES	MEANWELL , NICHOLAS A.
08635316	5602169	150	04/19/1996	3-SUBSTITUTED OXINDOLE DERIVATIVES AS POTASSIUM CHANNEL MODULATORS	MEANWELL , NICHOLAS A.
07540988	5011851	150	06/20/1990	IMIDAZOLE CARBOXYLIC ACIDS AND ESTERS AND INHIBITION OF BLOOD PLATELET AGGREGATION THEREWITH	MEANWELL , NICHOLAS A.
07809100	Not Issued	166	12/11/1991	OXAZOLE DERIVATIVES	MEANWELL , NICHOLAS A.
08658974	5849923	150	06/04/1996	HETEROCYCLIC-SUBSTITUTED NAPHTHALENYL RETINOBENZOIC ACID DERIVATIVES	MEANWELL , NICHOLAS A.
08902684	5869509	150	07/30/1997	DIPHENYL OXADIAZOLONES AS POTASSIUM CHANNEL MODULATORS	MEANWELL , NICHOLAS A.
60017223	Not Issued	159	05/09/1996	OXINDOLE POTASSIUM CHANNEL OPENERS	MEANWELL , NICHOLAS A.

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Last Name = VENABLES
First Name = BRIAN

Application#	Patent#	Status	Date Filed	Title	Inventor Name
09840279	6489338	150	04/23/2001	IMIDAZOPYRIDINE AND IMIDAZOPYRIMIDINE ANTIVIRAL AGENTS	VENABLES, BRIAN LEE
09994012	Not Issued	071	11/16/2001	HETEROCYCLIC SUBSTITUTED 2-METHYL-BENZIMIDAZOLE ANTIVIRAL AGENTS	VENABLES, BRIAN LEE
60257139	Not Issued	020	12/20/2000	HETEROCYCLIC SUBSTITUTED 2-METHYL-BENZIMIDAZOLE ANTIVIRAL AGENTS	VENABLES, BRIAN LEE

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Last Name = ZHANG
First Name = YI

Application#	Patent#	Status	Date Filed	Title	Inventor Name
09585382	6413223	150	06/01/2000	CUFFLESS CONTINUOUS BLOOD PRESSURE MONITOR	ZHANG, YI
09593822	Not Issued	160	06/13/2000	PACKETIZED COMMUNICATIONS APPARATUS AND METHOD	ZHANG, YI
09593732	Not Issued	030	06/13/2000	COMPUTER NETWORK-BASED TELEPHONE SWITCHING METHOD AND APPARATUS	ZHANG, YI
09860840	Not Issued	041	05/18/2001	MAGE-A3 PEPTIDES PRESENTED BY HLA CLASS II MOLECULES	ZHANG, YI
09593821	Not Issued	030	06/13/2000	COMPUTER NETWORK-BASED AUTO-ATTENDANT METHOD AND APPARATUS	ZHANG, YI
09871182	Not Issued	030	05/31/2001	IMAGE ANALYZING METHOD FOR DETECTING SIGNIFICANT CHANGES IN A TIME SEQUENCE OF IMAGES	ZHANG, YI
09672171	Not Issued	071	09/27/2000	UNIVERSAL INTERFACE FOR VOICE ACTIVATED ACCESS TO MULTIPLE INFORMATION PROVIDERS	ZHANG, YI
60235804	Not Issued	020	09/27/2000	BENZIMIDAZOLONE ANTIVIRAL AGENTS	ZHANG, YI
09952736	6506738	150	09/14/2001	BENZIMIDAZOLONE ANTIVIRAL AGENTS	ZHANG, YI
60244073	Not Issued	020	10/26/2000	HIGH CAPACITY STORAGE DEVICE PLAYER	ZHANG, YI
60371148	Not Issued	020	04/10/2002	OPTICAL FIBER SINGLE-CRYSTAL SAPPHIRE HIGH TEMPERATURE SENSING INSTRUMENT	ZHANG, YIBING

09587098	Not Issued	030	06/02/2000	PRINTING CONTROL INTERFACE	ZHANG, YICHUN
10046337	Not Issued	020	10/26/2001	INSULATOR COATED MAGNETIC NANOPARTICULATE COMPOSITES WITH REDUCED CORE LOSS AND METHOD OF MANUFACTURE THEREOF	ZHANG, YIDE
60243649	Not Issued	020	10/26/2000	INSULATOR COATED MAGNETIC NANOPARTICULATE COMPOSITES WITH REDUCED CORE LOSS	ZHANG, YIDE
60278569	Not Issued	020	03/23/2001	METHODS OF CONTROLLING SWAY MODE GAIN IN A HEAD SUSPENSION	ZHANG, YIDUO
60375596	Not Issued	020	04/25/2002	HEAD SUSPENSION CONFIGURED FOR SOLDER BALL BONDING TO HEAD SLIDER	ZHANG, YIDUO
09530081	6468679	150	06/20/2000	METAL-BASED GRADIENT COMPOSITE MATERIAL HAVING GOOD LUBRICATION AND WEAR RESISTANCE PROPERTY, THE PRODUCTION AND THE USE OF	ZHANG, YIFEI
60316311	Not Issued	020	08/30/2001	SYSTEMS AND METHODS FOR GENERATING SENSE AMP ENABLES	ZHANG, YIFEI
60358925	Not Issued	020	02/22/2002	MAMMALIAN SWEET AND AMINO ACID TASTE RECEPTORS	ZHANG, YIFENG
60259379	Not Issued	020	12/29/2000	ASSAYS FOR TASTE RECEPTOR CELL SPECIFIC ION CHANNEL	ZHANG, YIFENG
09927315	Not Issued	030	08/10/2001	MAMMALIAN SWEET TASTE RECEPTORS	ZHANG, YIFENG
60302898	Not Issued	020	07/03/2001	MAMMALIAN SWEET TASTE RECEPTORS	ZHANG, YIFENG
09911158	Not Issued	041	07/23/2001	TUNNEL MAGNETO-RESISTIVE HEAD AND MANUFACTURING METHOD THEREOF	ZHANG, YIGUN
09628378	Not Issued	030	07/31/2000	METHODS AND APPARATUS FOR DESIGN, ADJUSTMENT	ZHANG, YIHAO LISA

				OR OPERATION OF WIRELESS NETWORKS USING PRE-FREQUENCY-ASIGNMENT OPTIMIZATION	
09626427	Not Issued	030	07/27/2000	QUALITY OF SEVICE ROUTING IN INFORMATION NETWORKS OVER PATHS HAVING PERFORMANCE-DEPENDENT COSTS	ZHANG, YIHAO LISA
09628366	Not Issued	030	07/31/2000	METHODS AND APPARATUS FOR DESIGN, ADJUSTMENT OR OPERATION OF WIRELESS NETWORKS USING MULTI-STAGE OPTIMIZATION	ZHANG, YIHAO LISA
09626268	6245520	150	07/25/2000	METHODS FOR INTRODUCING NUCLEIC ACIDS INTO MAMMALIAN CELLS USING IMIDAZOLIUM LIPIDS	ZHANG, YILIN
09601378	6293454	150	07/26/2000	INSTALLATION FOR POSITIONING AND WELDING BODY PARTS OF DIFFERENT TYPES OF MOTOR VEHICLES	ZHANG, YIMIN
09896959	Not Issued	030	06/29/2001	FAILOVER MANAGEMENT SYSTEM	ZHANG, YIMING
09850984	6445142	150	05/08/2001	APPARATUS AND METHOD FOR REMOTELY DETECTING A MAGNETIC BALLAST	ZHANG, YIN
09567705	6420274	150	05/10/2000	METHOD FOR CONDITIONING PROCESS CHAMBERS	ZHANG, YING
09847479	Not Issued	041	05/02/2001	GATE LINEWIDTH TAILORING AND CRITICAL DIMENSION CONTROL FOR SUB-100 NM DEVICES USING PLASMA ETCHING	ZHANG, YING
60220840	Not Issued	020	07/26/2000	USE OF ANTIHELMINTIC DRUG NICLOSAMIDE FOR TREATMENT OF TUBERCULOSIS AND OTHER MYCOBACTERIAL INFECTIONS	ZHANG, YING
09874348	Not Issued	030	06/04/2001	SWITCHING OF MULTIPLE CLASSES OF SYNCHRONOUS DATA TRAFFIC	ZHANG, YING
09902727	Not Issued	030	07/12/2001	LATERAL-ONLY PHOTORESIST TRIMMING	ZHANG, YING

				FOR SUB-80 NM GATE STACK	
09874352	Not Issued	071	06/04/2001	CONCURRENT SWITCHING OF SYNCHRONOUS AND ASYNCHRONOUS TRAFFIC	ZHANG, YING
09736877	6518136	150	12/14/2000	SACRIFICIAL POLYSILICON SIDEWALL PROCESS AND RAPID THERMAL SPIKE ANNEALING FOR ADVANCE CMOS FABRICATION	ZHANG, YING
60294602	Not Issued	020	06/01/2001	RESUSCITATION OF DORMANT MYCOBACTERIUM TUBERCULOSIS BY PHOSPHOLIPIDS OR SPECIFIC PEPTIDES	ZHANG, YING
09745953	Not Issued	041	12/21/2000	SOLID STATE GLASS CONSTITUENT DELIVERY SYSTEM	ZHANG, YING-HUA
10113790	Not Issued	030	03/29/2002	FUSION PROTEINS FOR SPECIFIC TREATMENT OF CANCER AND AUTOIMMUNE DISEASES	ZHANG, YING-HUI
60236117	Not Issued	020	09/28/2000	DELIVERY METHOD FOR THE TUMOR SPECIFIC APOPTOSIS INDUCING ACTIVITY OF APOPTIN	ZHANG, YING-HUI
09672584	Not Issued	161	09/28/2000	EVOLUTION OF WHOLE CELLS AND ORGANISMS BY RECURSIVE SEQUENCE RECOMBINATION	ZHANG, YING-XIN
09617847	Not Issued	121	07/17/2000	PIGMENTED COATINGS FOR CERAMIC SUBSTRATES	ZHANG, YINGCHAO
10123131	Not Issued	030	04/17/2002	UPLINK POWER CONTROL ALGORITHM	ZHANG, YINGLU
09911014	Not Issued	095	07/23/2001	MATRIX METALLOPROTEINASE INHIBITORS AND METHOD OF USING SAME	ZHANG, YINGSHENG
09689225	Not Issued	030	10/10/2000	METHOD AND APPARATUS FOR MONITORING DYNAMIC CARDIOVASCULAR FUNCTION USING N-DIMENSIONAL REPRESENTATIONS OF CRITICAL FUNCTIONS	ZHANG, YINQI

09689206	Not Issued	071	10/10/2000	METHOD AND APPARATUS FOR MONITORING DYNAMIC SYSTEMS USING AN INTEGRATED GRAPHIC DISPLAY FOR THE N-DIMENSIONAL REPRESENTATIONS OF CRITICAL FUNCTIONS	ZHANG, YINQI
60224326	Not Issued	020	08/11/2000	METHOD OF TREATING ESTROGEN RECEPTOR POSITIVE CARCINOMA	ZHANG, YIXIAN
09923217	6511986	150	08/06/2001	METHOD OF TREATING ESTROGEN RECEPTOR POSITIVE CARCINOMA	ZHANG, YIXIAN
09635864	Not Issued	041	08/10/2000	OB POLYPEPTIDES, MODIFIED FORMS AND DERIVATIVES	ZHANG, YIYING

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Application#	Patent#	Status	Date Filed	Title	Inventor Name
09978613	Not Issued	041	10/16/2001	SYSTEM AND METHOD FOR ORTHOGONAL INDUCTANCE VARIATION	ZHANG, YI
09994012	Not Issued	071	11/16/2001	HETEROCYCLIC SUBSTITUTED 2-METHYL-BENZIMIDAZOLE ANTIVIRAL AGENTS	ZHANG, YI
60394141	Not Issued	020	07/05/2002	ELECTROCHEMICAL WHITTLING OF ORGANIC NANOSTRUCTURES	ZHANG, YI
09738629	Not Issued	030	12/14/2000	PACKETIZED COMMUNICATIONS APPARATUS AND METHOD	ZHANG, YI
10164121	Not Issued	030	06/05/2002	ISOLATED PEPTIDES WHICH BIND TO HLA-CW6 MOLECULES AND USES THEREOF	ZHANG, YI
09721831	Not Issued	019	10/12/2000	UNIVERSAL INTERFACE FOR VOICE ACTIVATED ACCESS TO MULTIPLE INFORMATION PROVIDERS	ZHANG, YI
10003676	Not Issued	041	10/31/2001	LIMITING UNWANTED INK PENETRATION OF FLEXIBLE CIRCUITS OF FLUID EJECTION DEVICES	ZHANG, YI
09531072	Not Issued	161	03/18/2000	VOICE COIL ACTUATABLE OPTICAL SWITCHES AND METHOD	ZHANG, YI
60257139	Not Issued	020	12/20/2000	HETEROCYCLIC SUBSTITUTED 2-METHYL-BENZIMIDAZOLE ANTIVIRAL AGENTS	ZHANG, YI
09834846	Not	030	04/13/2001	COMPUTER SYSTEM	ZHANG, YI

	Issued			THERMAL LAP MANAGEMENT METHOD AND APPARATUS	
09757054	Not Issued	120	01/08/2001	METHOD OF PRODUCING AN UNDIFFERENTIATED AVIAN CELL CULTURE USING AVIAN PRIMORDIAL GERM CELLS	ZHANG, YI GUO
09769066	Not Issued	041	05/29/2001	HEPATITIS E VIRUS ANTIGENS AND USES THEREFOR	ZHANG, YI-FAN
60331764	Not Issued	020	11/21/2001	MANAGEMENT OF MEDICAL IMAGERY AND PATIENT DATA	ZHANG, YI-QUAN
09990096	Not Issued	020	11/21/2001	METHOD AND APPARATUS FOR ADAPTIVELY BINARIZING COLOR DOCUMENT IMAGES	ZHANG, YICHUN
10105576	Not Issued	030	03/25/2002	METHODS OF CONTROLLING SWAY MODE GAIN IN A HEAD SUSPENSION	ZHANG, YIDUO
60342238	Not Issued	020	12/21/2001	REDUCED TPTR USING VERY THIN SHIELDS	ZHANG, YIFAN
60257124	Not Issued	020	12/20/2000	INNOVATIVE MICROFABRICATION METHOD FOR ULTRAFINE STRUCTURES	ZHANG, YIFAN
09480879	Not Issued	161	01/10/2000	NOVEL PLASMID DNA VECTORS	ZHANG, YILIN
09987046	Not Issued	030	11/13/2001	STEP SIZE CONVERGENCE CONTROL	ZHANG, YIMIN
10171754	Not Issued	030	06/17/2002	ECHO ANALYSIS FOR IDENTIFICATION OF HYBRID INDUCED ECHO IN A COMMUNICATION LINK	ZHANG, YIMIN
09828324	Not Issued	030	04/06/2001	METHOD AND APPARATUS FOR EQUALIZING A RADIO FREQUENCY SIGNAL	ZHANG, YIMIN
60388971	Not Issued	020	06/14/2002	P4P: PROXIES FOR P2P SYSTEMS	ZHANG, YIN
09736877	6518136	150	12/14/2000	SACRIFICIAL POLYSILICON SIDEWALL PROCESS AND RAPID THERMAL SPIKE ANNEALING FOR ADVANCE CMOS FABRICATION	ZHANG, YING

10005920	Not Issued	071	12/07/2001	METHODS FOR IMPROVED DIAGNOSIS AND TREATMENT OF MYCOBACTERIAL INFECTIONS	ZHANG, YING
09836197	Not Issued	041	04/18/2001	SELF-ALIGNED SILICIDE PROCESS FOR SILICON SIDEWALL SOURCE AND DRAIN CONTACTS AND STRUCTURE FORMED THEREBY	ZHANG, YING
09811707	Not Issued	095	03/19/2001	FABRICATION OF NOTCHED GATES BY PASSIVATING PARTIALLY ETCHED GATE SIDEWALLS AND THEN USING AN ISOTROPIC ETCH	ZHANG, YING
09792040	Not Issued	094	02/22/2001	METHOD FOR CHANGING SURFACE TERMINATION OF A PEROVSKITE OXIDE SUBSTRATE SURFACE	ZHANG, YING
60331518	Not Issued	020	11/19/2001	USE OF RESERPINE FOR THE TREATMENT OF TUBERCULOSIS (TB) AND DRUG-RESISTANT TB	ZHANG, YING
10172262	Not Issued	040	06/14/2002	SACRIFICIAL POLYSILICON SIDEWALL PROCESS AND RAPID THERMAL SPIKE ANNEALING FOR ADVANCE CMOS FABRICATION	ZHANG, YING
09733324	6429091	150	12/08/2000	PATTERNED BURIED INSULATOR	ZHANG, YING
09745954	6490889	150	12/21/2000	METHOD OF FORMING A GLASS PREFORM	ZHANG, YING-HUA
09764912	6510710	150	01/17/2001	MULTI-TUBE DELIVERY SYSTEM	ZHANG, YING-HUA
09764938	Not Issued	095	01/17/2001	METHOD OF PROVIDING A HIGH LEVEL OF RARE EARTH CONCENTRATIONS IN GLASS FIBER PREFORMS	ZHANG, YING-HUA
09764648	Not Issued	041	01/17/2001	METHOD OF MANUFACTURING AN OPTICAL FIBER PREFORM	ZHANG, YING-HUA
09766121	Not Issued	095	01/18/2001	METHOD OF FORMING AN OPTICAL FIBER	ZHANG, YING-HUA
09949780	Not Issued	030	09/10/2001	DELIVERY METHOD FOR THE TUMOR SPECIFIC APOPTOSIS	ZHANG, YING-HUI

				INDUCING ACTIVITY OF APOPTIN	
09718262	Not Issued	161	11/21/2000	EVOLUTION OF WHOLE CELLS AND ORGANISMS BY RECURSIVE SEQUENCE RECOMBINATION	ZHANG, YING-XIN
60391555	Not Issued	020	06/25/2002	METHOD AND COMPOSITIONS FOR APPLYING MULTIPLE OVERLYING ORGANIC PIGMENTED DECORATIONS ON CERAMIC SUBSTRATES	ZHANG, YINGCHAO
09801115	Not Issued	071	03/07/2001	NUCLEIC ACID MOLECULE ENCODING CHEMOKINE-LIKE FACTOR 1 (CKLF1)	ZHANG, YINGMEI
09539198	Not Issued	030	03/29/2000	REDUCING PROBE TRAFFIC IN MULTIPROCESSOR SYSTEMS USING A VICTIM RECORD TABLE	ZHANG, YINONG A.
09994540	Not Issued	030	11/27/2001	TRELLIS BASED MAXIMUM LIKELIHOOD SIGNAL ESTIMATION METHOD AND APPARATUS FOR BLIND JOINT CHANNEL ESTIMATION AND SIGNAL DETECTION	ZHANG, YINYUN
60180795	Not Issued	159	02/07/2000	NEW PHARMACEUTICAL COMPOSITION OF RELAXING SMOOTH MUSCLE	ZHANG, YISHENG
09764417	Not Issued	061	01/19/2001	BIO-ENERGY MUSCLE RELAXANTS	ZHANG, YISHENG
09751833	6373824	150	12/29/2000	NETWORK TRAFFIC SPECIFICATION	ZHANG, YITANG
09496059	Not Issued	161	02/01/2000	METHOD AND APPARATUS FOR WRAPPING A LABEL ONTO A CONTAINER WITH A GLUELESS LEADING EDGE	ZHANG, YITAO
60253460	Not Issued	020	11/28/2000	EXPRESSION ANALYSIS OF KIAA NUCLEIC ACIDS AND POLYPEPTIDES USEFUL IN THE DIAGNOSIS AND TREATMENT OF PROSTATE CANCER	ZHANG, YIXIAN
60253374	Not Issued	020	11/28/2000	EXPRESSION ANALYSIS OF INHIBITOR OF DIFFERENTIATION NUCLEIC	ZHANG, YIXIAN

				ACIDS AND POLYPEPTIDES USEFUL IN THE DIAGNOSIS AND TREATMENT OF PROSTATE CANCER	
60253539	Not Issued	020	11/28/2000	EXPRESSION ANALYSIS OF FKBP54 NUCLEIC ACIDS AND POLYPEPTIDES USEFUL IN THE DIAGNOSIS AND TREATMENT OF PROSTATE CANCER	ZHANG, YIXIAN
09996630	Not Issued	020	11/28/2001	EXPRESSION ANALYSIS OF KIAA NUCLEIC ACIDS AND POLYPEPTIDES USEFUL IN THE DIAGNOSIS AND TREATMENT OF PROSTATE CANCER	ZHANG, YIXIAN
60253487	Not Issued	020	11/28/2000	EXPRESSION ANALYSIS OF SMARC NICLEIC ACIDS AND POLYPEPTIDES USEFUL IN THE DIAGNOSIS AND TREATMENT OF PROSTATE CANCER	ZHANG, YIXIAN

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Application#	Patent#	Status	Date Filed	Title	Inventor Name
08472465	Not Issued	161	06/07/1995	HEPATITIS E VIRUS ANTIGENS AND USES THEREFOR	ZHANG , YI-FAN
08472961	Not Issued	161	06/07/1995	HEPATITIS E VIRUS ANTIGENS AND USES THEREFOR	ZHANG , YI-FAN
08267710	Not Issued	161	06/29/1994	USE OF BACTERIAL COMPONENT TO ENHANCE TARGETED DELIVERY OF POLYNUCLEOTIDES TO CELLS	ZHANG , YING
08057502	5373576	150	05/04/1993	HIGH POWER OPTICAL FIBER	ZHANG , YING H.
08289813	5414198	150	08/12/1994	DEGRADATION OF NITROCELLULOSE BY COMBINED CULTURES OF SCLEROTIUM ROLFSII ATCC 24459 AND FUSARIUM SOLANI IFO 31093	ZHANG , YING-ZHI
07092822	Not Issued	166	09/03/1987	DIGITAL HIGH-VOLTAGE MEGA-OHM	ZHANG , YISHENG
08292345	6001968	150	08/17/1994	OB POLYPEPTIDES, MODIFIED FORMS AND COMPOSITIONS	ZHANG , YIYING
60356813	Not Issued	020	02/14/2002	MULTI-CHANNEL BLIND SYSTEM IDENTIFICATION FOR CARDIOVASCULAR MONITORING	ZHANG, YI
60339025	Not Issued	020	12/10/2001	SUBSTITUTED 2-METHYL-BENZIMIDAZOLE RESPIRATORY SYNCYTIAL VIRUS ANTIVIRAL AGENTS	ZHANG, YI
10185406	Not Issued	020	06/28/2002	COMPUTING GAIN FACTORS FOR WEIGHTING DATA STREAMS IN A COMMUNICATION SYSTEM	ZHANG, YI
10218095	Not	020	08/13/2002	MAGE-A4 ANTIGENIC PEPTIDES	ZHANG, YI

	Issued			AND USES THEREOF	
10309505	Not Issued	019	12/04/2002	SUBSTITUTED 2-METHYL-BENZIMIDAZOLE RESPIRATORY SYNCYTIAL VIRUS ANTIVIRAL AGENTS	ZHANG, YI
10283512	Not Issued	020	10/30/2002	CALLING CARD SYSTEM FOR VOICE AND DATA TRANSMISSION OVER A PUBLIC NETWORK	ZHANG, YI
09643217	Not Issued	041	08/18/2000	CHIMERIC AND/OR GROWTH-RESTRICTED FLAVIVIRUSES	ZHANG, YI-MING
10037243	Not Issued	030	01/04/2002	FACILITATING PROTEIN FOLDING AND SOLUBILITY BY USE OF PEPTIDE EXTENSIONS	ZHANG, YIAN-BIAO
10206739	Not Issued	030	07/26/2002	MAGNETIC SHIELDS FOR REDUCED VARIATIONS OF HEAD-MEDIA SPACING	ZHANG, YIFAN
10026188	Not Issued	030	12/21/2001	ASSAYS FOR TASTE RECEPTOR CELL SPECIFIC ION CHANNEL	ZHANG, YIFENG
10190417	Not Issued	020	07/03/2002	MAMMALIAN SWEET AND AMINO ACID HETERODIMERIC TASTE RECEPTORS	ZHANG, YIFENG
10280853	Not Issued	030	10/25/2002	QUADRATURE MISMATCH COMPENSATION	ZHANG, YIFENG
10280749	Not Issued	030	10/25/2002	SINGLE OSCILLATOR DSSS AND OFDM RADIO RECEIVER	ZHANG, YIFENG
10203202	Not Issued	019	01/01/0001	METHOD FOR BLEACHING MECHANICAL AND CHEMITHERMOMECHANICAL PULP	ZHANG, YIJING
10017408	Not Issued	030	10/30/2001	METHOD FOR EXTRACTING NAME ENTITIES AND JARGON TERMS USING A SUFFIX TREE DATA STRUCTURE	ZHANG, YIMIN
10271900	Not Issued	020	10/15/2002	RADIO FREQUENCY WETNESS DETECTION SYSTEM	ZHANG, YIMIN
10223443	Not Issued	030	08/20/2002	DOUBLE TALK, NLP AND COMFORT NOISE	ZHANG, YIMIN
10019879	Not Issued	019	01/01/0001	A METHOD AND APPARATUS FOR EXTRACTING ENTITY NAMES AND THEIR RELATIONS	ZHANG, YIMIN
10029669	Not Issued	030	12/31/2001	DYNAMICALLY ESTIMATING ECHO RETURN LOSS IN A COMMUNICATION LINK	ZHANG, YIMIN
60398474	Not	020	07/25/2002	FAST ACCURATE COMPUTATION	ZHANG, YIN

	Issued			OF LARGE-SCALE IP TRAFFIC MATRICES FROM LINK LOADS	
60421883	Not Issued	020	10/28/2002	IN SITU ADAPTIVE MASKS	ZHANG, YIN
60422742	Not Issued	020	10/31/2002	THIN FILM INTERLEAVER	ZHANG, YIN
60429467	Not Issued	020	11/26/2002	BATCHED PACKAGE PROCESS FOR CREATING OPTICAL BLOCKS FOR USE IN FORMING OPTICAL COMPONENTS	ZHANG, YIN
60422822	Not Issued	020	10/30/2002	SYSTEMS AND METHODS FOR MANUFACTURING COAXIAL OPTICAL COMPONENTS	ZHANG, YIN
60419472	Not Issued	020	10/18/2002	LASER BENDING FABRICATION OF OPTICAL INTERLEAVER	ZHANG, YIN
09836197	Not Issued	041	04/18/2001	SELF-ALIGNED SILICIDE PROCESS FOR SILICON SIDEWALL SOURCE AND DRAIN CONTACTS AND STRUCTURE FORMED THEREBY	ZHANG, YING
60399989	Not Issued	020	07/31/2002	SYSTEM, METHOD, AND PROGRAM PRODUCTS FOR VIEWING DIGITAL PHOTOS WITH A PORTABLE ELECTRONIC DEVICE VIA TELEVISION OR OTHER DISPLAYING DEVICES	ZHANG, YING
60419489	Not Issued	020	10/18/2002	ASSAY SPECIFIC FOR DETECTION OF HOMOCYSTEINE	ZHANG, YING
10016427	Not Issued	030	12/10/2001	SIX DEGREE OF FREEDOM POSITION RANGING	ZHANG, YING
60345133	Not Issued	020	10/19/2001	METHOD OF FABRICATING PREFORMS WITH HIGH DOPANT CONCENTRATION AND GOOD GEOMETRY	ZHANG, YING HUA
60345135	Not Issued	020	10/19/2001	DEUTERIUM PLASMA AND HIGH TEMPERATURE METHODS FOR PASSIVATING ER DOPED FIBER OR PREFORM	ZHANG, YING HUA
10278741	Not Issued	019	10/21/2002	METHOD OF REDUCING A HYDROGEN CONTENT OF AN OPTICAL FIBER OR PREFORM	ZHANG, YING HUA
10073697	Not Issued	030	02/11/2002	METHOD OF FABRICATING OPTICAL FIBER PREFORMS WITH HIGH DOPANT CONCENTRATION AND GOOD	ZHANG, YING HUA

				GEOMETRY	
60352747	Not Issued	020	01/30/2002	COOLERLESS PUMP WAVELENGTH OPTIMIZATION FOR ER/YB DOPED OPTICAL FIBER AMPLIFIERS	ZHANG, YING HUA
60345925	Not Issued	020	11/07/2001	ER DOPED FIBER FOR HIGH GAIN WITH HIGH HYDROGEN RESISTANCE	ZHANG, YING HUA
10289144	Not Issued	020	11/06/2002	OPTICAL FIBER FOR RESISTING HYDROGEN-INDUCED LOSS	ZHANG, YING HUA
10194686	Not Issued	030	07/11/2002	EVOLUTION OF WHOLE CELLS AND ORGANISMS BY RECURSIVE SEQUENCE RECOMBINATION	ZHANG, YING-XIN
10274170	Not Issued	019	10/17/2002	TECHNIQUES TO MANUFACTURE OPTICAL SIGNAL TRANSMITTERS	ZHANG, YINGFAN
09989335	Not Issued	030	11/20/2001	UPLINK POWER CONTROL ALGORITHM	ZHANG, YINGLU
10261299	Not Issued	020	09/30/2002	APPARATUS AND METHOD FOR AN OVERLOAD CONTROL PROCEDURE AGAINST DENIAL OF SERVICE ATTACK	ZHANG, YINGLU
10314094	Not Issued	020	12/05/2002	OPTIMIZING SOURCE CODE FOR ITERATIVE EXECUTION	ZHANG, YINGWEI
09996529	Not Issued	030	11/28/2001	EXPRESSION ANALYSIS OF INHIBITOR OF DIFFERENTIATION NUCLEIC ACIDS AND POLYPEPTIDES USEFUL IN THE DIAGNOSIS AND TREATMENT OF PROSTATE CANCER	ZHANG, YIXIAN
09997423	Not Issued	030	11/28/2001	EXPRESSION ANALYSIS OF FKBP NUCLEIC ACIDS AND POLYPEPTIDES USEFUL IN THE DIAGNOSIS AND TREATMENT OF PROSTATE CANCER	ZHANG, YIXIAN

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Inventor Name Search Result

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Last Name = ZHANG
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Application#	Patent#	Status	Date Filed	Title	Inventor Name
09155342	6225800	150	09/25/1998	ARRAGEMENT FOR COUPLING AN RF-SQUID MAGNETOMETER TO A SUPERCONDUCTIVE TANK CIRCUIT	ZHANG , YI
09383660	6215554	150	08/26/1999	LASER DIAGNOSTIC UNIT FOR DETECTING CARCINOSIS	ZHANG , YI
08514237	Not Issued	161	08/11/1995	THIEF EVADING DEVICE FOR AUTOMOBILE ELECTRONIC SYSTEMS	ZHANG , YI
60035967	Not Issued	159	01/21/1997	LOW INDUCTANCE SHUNT	ZHANG , YI
09169361	6397345	150	10/09/1998	FAULT TOLERANT BUS FOR CLUSTERED SYSTEM	ZHANG , YI
09404061	6314219	150	09/23/1999	FIBER MINI-BEND LIGHT GUIDE	ZHANG , YI
60094760	Not Issued	159	07/31/1998	METHOD & APPARATUS FOR MONITORING A BELT EMPLOYING SYNCHRONOUS AVERAGING WITHOUT A TACHOMETER	ZHANG , YI
09420653	Not Issued	093	10/19/1999	RECONFIGURABLE FIBER OPTIC MODULE	ZHANG , YI
09169838	6412079	150	10/09/1998	SERVER POOL FOR CLUSTERED SYSTEM	ZHANG , YI
09169360	6230190	150	10/09/1998	SHARED-EVERYTHING FILE STORAGE FOR CLUSTERED SYSTEM	ZHANG , YI
08528190	5732493	250	09/14/1995	DUAL PENDULUM DISPLAY APPARATUS	ZHANG , YI Y.
08472961	Not Issued	161	06/07/1995	HEPATITIS E VIRUS ANTIGENS AND USES	ZHANG , YI-FAN

				THEREFOR	
08477292	6291641	150	06/07/1995	HEPATITIS E VIRUS ANTIGENS AND USES THEREFOR	ZHANG , YI-FAN
08327952	Not Issued	161	10/24/1994	HEPATITIS E VIRUS ANTIGENS AND USES THEREFOR	ZHANG , YI-FAN
60065859	Not Issued	159	11/14/1997	HETEROCYCLIC CATIONIC LIPIDS	ZHANG , YI-LIN
60088359	Not Issued	159	04/04/1997	METHODS OF DELIVERY USING CATIONIC LIPIDS AND HELPER LIPIDS	ZHANG , YI-LIN
09158510	6217672	150	09/22/1998	MAGNETIC ANNEALING OF MAGNETIC ALLOYS IN A DYNAMIC MAGNETIC FIELD	ZHANG , YIDE
60059906	Not Issued	159	09/24/1997	MAGNETIC ANNEALING OF MAGNETIC ALLOYS IN A DYNAMIC MAGNETIC FIELD	ZHANG , YIDE
09183634	6121457	150	10/30/1998	COMPOSITIONS AND METHODS USING NOVEL SUBSTITUTED IMIDAZOLIUM LIPIDS	ZHANG , YILIN
60084820	Not Issued	159	05/08/1998	METHODS AND COMPOSITIONS FOR DELIVERING NUCLEIC ACIDS	ZHANG , YILIN
60080450	Not Issued	159	04/03/1998	CATIONIC LIPID FORMULATION DELIVERING NUCLEIC ACID TO PERITONEAL TUMORS	ZHANG , YILIN
60023641	Not Issued	159	08/09/1996	COMPUTER IMPLEMENTED METHOD AND SYSTEM FOR TRADING PHYSICAL COMMODITIES THROUGH ELECTRONIC AUCTIONS AND ELECTRONIC NEGOTIATIONS	ZHANG , YIMING
09384699	Not Issued	030	08/27/1999	SCALABLE ATOMIC MULTICAST	ZHANG , YIN
08473507	5637237	150	06/07/1995	METHOD FOR HOT WALL REACTIVE ION ETCHING USING A DIELECTRIC OR METALLIC LINER WITH TEMPERATURE CONTROL TO ACHIEVE PROCESS STABILITY PROCESS	ZHANG , YING

				STABILITY	
08484009	5728399	250	06/07/1995	USE OF A BACTERIAL COMPONENT TO ENHANCE TARGETED DELIVERY OF POLYNUCLEOTIDES TO CELLS	ZHANG , YING
09146228	6096655	150	09/02/1998	METHOD FOR FORMING VIAS AND TRENCHES IN AN INSULATION LAYER FOR A DUAL-DAMASCENE MULTILEVEL INTERCONNECTION STRUCTURE	ZHANG , YING
09401493	6419162	150	09/22/1999	MAXIMIZING DATA CAPACITY FOR EMBEDDED DATA BLOCKS WITH OCCLUSIONS THEREIN	ZHANG , YING
09187682	Not Issued	161	11/05/1998	IDENTIFICATION OF PYRAZINAMIDE-RESISTANT MYCOBACTERIA AND METHODS FOR TREATING MYCOBACTERIAL INFECTIONS	ZHANG , YING
08313185	5851763	150	10/12/1994	RAPID DETECTION OF ANTIBIOTIC RESISTANCE IN MYCOBACTERIUM TUBERCULOSIS	ZHANG , YING
07875940	Not Issued	161	04/30/1992	RAPID DETECTION OF ISONIAZID RESISTANCE IN MYCOBACTERIUM TUBERCULOSIS	ZHANG , YING
60091290	Not Issued	159	06/30/1998	METHOD OF MANUFACTURING A RARE EARTH DOPED OPTICAL FIBER	ZHANG , YING-HUA
09354922	6379964	150	07/15/1999	EVOLUTION OF WHOLE CELLS AND ORGANISMS BY RECURSIVE SEQUENCE RECOMBINATION	ZHANG , YING-XIN
09359471	6214414	150	07/22/1999	METHOD FOR FORMING A SEQUENCE OF CROOSLINKED PIGMENTED COATINGS ON CERAMIC SUBSTRATES	ZHANG , YINGCHAO
09359473	Not Issued	161	07/22/1999	PIGMENTED COATINGS FOR CERAMIC SUBSTRATES	ZHANG , YINGCHAO

09359472	Not Issued	161	07/22/1999	OVERCOATED COATINGS FOR CERAMIC SUBSTRATES	ZHANG , YINGCHAO
60074575	Not Issued	159	02/13/1998	METHODS OF DISRUPTING THE INTERFERON-GAMMA SIGNAL TRANSDUCTION PATHWAY	ZHANG , YINGXUE
08490161	5659034	150	06/14/1995	LAYERED VANADIUM OXIDE COMPOSITIONS	ZHANG , YIPING
08729473	5717120	150	10/11/1996	LAYERED VANADIUM OXIDE COMPOSITIONS	ZHANG , YIPING
08961857	5824813	150	10/31/1997	LAYERED VANADIUM OXIDE COMPOSITIONS	ZHANG , YIPING
08483211	6309853	150	06/07/1995	MODULATORS OF BODY WEIGHT, CORRESPONDING NUCLEIC ACIDS AND PROTEINS, AND DIAGNOSTIC AND THERAPEUTIC USES THEREOF	ZHANG , YIYING
08485941	Not Issued	161	06/07/1995	MODULATORS OF BODY WEIGHT, CORRESPONDING NUCLEIC ACIDS AND PROTEINS, AND DIAGNOSTIC AND THERAPEUTIC USES THEREOF	ZHANG , YIYING
08485942	6048837	150	06/07/1995	OB POLYPEPTIDES AS MODULATORS OF BODY WEIGHT	ZHANG , YIYING
09183374	Not Issued	161	10/30/1998	MODULATORS OF BODY WEIGHT CORRESPONDING NUCLEIC ACIDS AND PROTEINS DANDIAGNOSTIC AND THERAPEUTIC USES THEREOF	ZHANG , YIYING
09347068	Not Issued	161	07/02/1999	MODULATORS OF BODY WEIGHT, CORRESPONDING NUCLEIC ACIDS AND PROTEINS, AND DIAGNOSTIC AND THERAPEUTIC USES THEREOF	ZHANG , YIYING
08485943	Not Issued	071	06/07/1995	MODULATORS OF BODY WEIGHT, CORRESPONDING NUCLEIC ACIDS AND PROTEINS, AND DIAGNOSTIC AND THERAPEUTIC USES THEREOF	ZHANG , YIYING
08488208	6124448	150	06/07/1995	NUCLEIC ACID PRIMERS AND	ZHANG , YIYING

				PROBES FOR THE MAMMALIAN OB GENE	
08488214	6124439	150	06/07/1995	OB POLYPEPTIDES ANTIBODIES AND METHOD OF MAKING	ZHANG , YIYING
08488215	Not Issued	161	06/07/1995	MODULATORS OF BODY WEIGHT, CORRESPONDING NUCLEIC ACIDS AND PROTEINS, AND DIAGNOSTIC AND THERAPEUTIC USES THEREOF	ZHANG , YIYING
08488223	6350730	150	06/07/1995	OB POLYPEPTIDES AND MODIFIED FORMS AS MODULATORS OF BODY WEIGHT	ZHANG , YIYING
08488224	Not Issued	161	06/07/1995	MODULATORS OF BODY WEIGHT CORRESPONDING NUCLEIC ACIDS AND PROTEINS AND DIAGNOSTIC AND THERAPEUTIC USES THEREOF	ZHANG , YIYING

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Application#	Patent#	Status	Date Filed	Title	Inventor Name
60094760	Not Issued	159	07/31/1998	METHOD & APPARATUS FOR MONITORING A BELT EMPLOYING SYNCHRONOUS AVERAGING WITHOUT A TACHOMETER	ZHANG , YI
08569219	5867024	150	12/15/1995	RF-SQUID WITH AN INTEGRATED LAMBDA-MICROWAVE RESONATOR USEFUL AS HIGHLY SENSITIVE MAGNETOMETER	ZHANG , YI
08783189	5818214	150	01/15/1997	BUCK REGULATOR CIRCUIT	ZHANG , YI
60137033	Not Issued	159	06/01/1999	CUFFLESS CONTINUOUS BLOOD PRESSURE MONITOR	ZHANG , YI
08374902	Not Issued	161	01/09/1995	PORTABLE AIR PURIFYING DEVICE	ZHANG , YI
08817029	Not Issued	164	03/25/1997	HIGH-FREQUENCY SQUID WITH FLUX-FOCUSING STRUCTURE INTEGRATED WITH A RESONATOR IN THE SEMI CONDUCTOR NATURAL	ZHANG , YI
08817952	Not Issued	161	04/08/1997	SQUID WITH SUPERCONDUCTIVE LOOP AND RESONATOR	ZHANG , YI
60158987	Not Issued	159	10/12/1999	PACKETIZED NETWORK TRUNK INTERFACE	ZHANG , YI
08860986	5901453	150	06/16/1997	GRADIOMETER	ZHANG , YI
09234617	Not Issued	161	01/21/1999	UNIVERSAL INTERFACE FOR VOICE ACTIVATED ACCESS TO MULTIPLE INFORMATION PROVIDERS	ZHANG , YI
08817553	Not	161	04/09/1997	CONCENTRATED COMPONENT	ZHANG , YI

	Issued			OF A HIGH-FREQUENCY CIRCUIT CONTAINING SAME	
08374985	Not Issued	164	01/19/1995	SMOKE FILTERING ASHTRAY DEVICE	ZHANG , YI
60139342	Not Issued	159	06/15/1999	PACKETIZED COMMUNICATIONS APPARATUS AND METHOD	ZHANG , YI
60135738	Not Issued	159	05/25/1999	BATCH PROCESSING OF EMAIL MESSAGES OF MIME EMAIL SYSTEM	ZHANG , YI
60134186	Not Issued	159	05/16/1999	USER CONTROLLED MULTIPLE URLS LOADING AND VIEWING IN ONE BROWSER	ZHANG , YI
09465562	Not Issued	161	12/17/1999	CATIONIC LIPIDS	ZHANG , YI LIN
60113416	Not Issued	159	12/22/1998	CATIONIC LIPIDS	ZHANG , YI LIN
08542634	6214970	150	10/13/1995	HEPATITIS E VIRUS ANTIGENS AND USES THEREFOR	ZHANG , YI-FAN
07693300	5332811	150	05/01/1991	NEW ETOPOSIDE ANALOGS	ZHANG , YI-LIN
08825854	5958894	150	04/04/1997	AMPHIPHILIC BIGUANIDE DERIVATIVES	ZHANG , YI-LIN
08832749	Not Issued	157	04/04/1997	METHODS OF DELIVERY USING CATIONIC LIPIDS AND HELPER LIPIDS	ZHANG , YI-LIN
07987765	5300500	150	12/08/1992	4 BETA-AMINO PODOPHYLLOTOXIN ANALOG COMPOUNDS AND METHODS	ZHANG , YI-LIN
09049791	Not Issued	169	03/27/1998	METHOD OF DELIVERY USING CATIONIC LIPIDS AND HELPER LIPIDS	ZHANG , YI-LIN
07218852	Not Issued	166	07/14/1988	VACCINE FOR DENGUE VIRUS	ZHANG , YI-MING
07957075	Not Issued	161	10/06/1992	VACCINE FOR DENGUE VIRUS	ZHANG , YI-MING
09458238	6351350	150	12/09/1999	SHOCK LIMITER SYSTEM FOR A HEAD SUSPENSION	ZHANG , YIDUO
06905834	Not Issued	163	09/10/1986	PROCESS AND AN EQUIPMENT TO FORM A SULPHIDE CASE AT THE SURFACES OF METAL PARTS	ZHANG , YIFEI
60107210	Not Issued	159	11/05/1998	LINEAR PROGRAMMING METHOD OF NETWORK	ZHANG , YIHAO LISA

				DESIGN FOR CARRYING TRAFFIC FROM ENDNODES TO A CORE NETWORK AT LEAST COST	
09255945	6363334	150	02/23/1999	LINEAR PROGRAMMING METHOD OF NETWORKING DESIGN FOR CARRYING TRAFFIC FROM ENDNODES TO A CORE NETWORK AT LEAST COST	ZHANG , YIHAO LISA
60114748	Not Issued	159	01/05/1999	METHODS AND COMPOSITIONS FOR DELIVERING NUCLEIC ACIDS	ZHANG , YILIN
09477851	Not Issued	168	01/05/2000	METHODS AND COMPOSITIONS FOR DELIVERING NUCLEIC ACIDS	ZHANG , YILIN
08588213	5767090	150	01/17/1996	MICROBIALLY PRODUCED RHAMNOLIPIDS (BIOSURFACTANTS) FOR THE CONTROL OF PLANT PATHOGENIC ZOOSPORIC FUNGI	ZHANG , YIMIN
60098065	Not Issued	159	08/27/1998	SCALABLE ATOMIC MULTICAST COMMUNICATIONS METHOD	ZHANG , YIN
08621813	Not Issued	161	03/22/1996	METHOD AND APPARATUS FOR DESTROYING ORGANIC COMPOUNDS IN FLUID	ZHANG , YIN
08160102	5501801	150	11/30/1993	METHOD AND APPARATUS FOR DESTROYING ORGANIC COMPOUNDS IN FLUID	ZHANG , YIN
08577206	Not Issued	169	12/22/1995	METHOD AND APPARATUS FOR DESTROYING ORGANIC COMPOUNDS IN FLUID	ZHANG , YIN
08579368	Not Issued	169	12/27/1995	METHOD AND APPARATUS FOR DESTROYING ORGANIC COMPOUNDS IN FLUID	ZHANG , YIN
09014169	Not Issued	161	01/27/1998	METHOD AND APARATUS FOR PROVIDING ENDPOINT DETECTION USING RESIDUAL GAS ANALYSIS	ZHANG , YING
07929206	5633131	150	08/14/1992	RAPID DETECTION OF ISONIAZID RESISTANCE IN MYCOBACTERIUM TUBERCULOSIS PROBES FOR SELECTING NUCLEIC ACID	ZHANG , YING

				ENCODING ISONIAZID RESISTANCE, AND METHODS AND KITS	
08622353	5700925	250	03/27/1996	DNA ENCODING STATIONARY PHASE, STRESS RESPONSE SIGMA FACTOR FROM MYCOBACTERIUM TUBERCULOSIS	ZHANG , YING
08208158	5798016	150	03/08/1994	APPARATUS FOR HOT WALL REACTIVE ION ETCHING USING A DIELECTRIC OR METALLIC LINER WITH TEMPERATURE CONTROL TO ACHIEVE PROCESS STABILITY	ZHANG , YING
08823005	5966490	150	03/21/1997	CLAD OPTIC FIBER, AND PROCESS FOR PRODUCTION THEREOF	ZHANG , YING HUA
08802704	5811605	150	02/19/1997	PREPARATION OF 1,2,3,3,-TETRACHLOROPROPENE	ZHANG , YINGCHAO
09249154	6103531	150	02/12/1999	METHODS OF DISRUPTING INTERFERON SIGNAL TRANSDUCTION PATHWAYS	ZHANG , YINGXUE
08591886	5690808	150	01/25/1996	ELECTROCHEMICAL GAS SENSORS AND METHODS FOR SENSING ELECTROCHEMICAL ACTIVE GASES IN GAS MIXTURES	ZHANG , YINING
08839383	Not Issued	161	04/18/1997	GAS/MOISTURE SENSORS FOR INERT GASES	ZHANG , YINING
08631075	Not Issued	166	04/12/1996	GAS MOISTURE SENSORS FOR INERT GASES	ZHANG , YINING
08793756	Not Issued	161	07/11/1997	GENETICALLY MODIFIED T-CELLS	ZHANG , YIPING
08347563	5935810	150	11/30/1994	MAMMALIAN OB POLYPEPTIDES CAPABLE OF MODULATING BODY WEIGHT, CORRESPONDING NUCLEIC ACIDS, AND DIAGNOSTIC AND THERAPEUTIC USES THEREOF	ZHANG , YIYING
08438431	6429290	150	05/10/1995	OB POLYPEPTIDES,MODIFIED FORMS AND DERIVATIVES	ZHANG , YIYING

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Application#	Patent#	Status	Date Filed	Title	Inventor Name
08860986	5901453	150	06/16/1997	GRADIOMETER	ZHANG , YI
09308883	6300760	150	05/26/1999	AN ARRANGEMENT FOR COUPLING AN RF-SQUID CIRCUIT TO A SUPER CONDUCTING TANK CIRCUIT.	ZHANG , YI
08229763	5450866	150	04/19/1994	DENTAL FLOSS DEVICE	ZHANG , YI
60010723	Not Issued	159	01/29/1996	LOW INDUCTANCE SHUNT	ZHANG , YI
60010218	Not Issued	159	01/18/1996	BUCK REGULATOR CIRCUIT	ZHANG , YI
09054769	6235310	150	04/03/1998	IMPROVED METHODS OF DELIVERY USING CATIONIC LIPIDS AND HELPER LIPIDS	ZHANG , YI-LIN
08250802	6184024	150	05/27/1994	CHIMERIC AND/OR GROWTH-RESTRICTED FLAVIVIRUSES	ZHANG , YI-MING
09083011	6147990	150	05/21/1998	METHOD FOR PROVIDING COMMUNICATIONS NETWORK STABILITY	ZHANG , YIHAO
09283543	6271209	150	04/01/1999	CATIONIC LIPID FORMULATION DELIVERING NUCLEIC ACID TO PERITONEAL TUMORS	ZHANG , YILIN
09306738	Not Issued	161	05/07/1999	METHODS AND COMPOSITIONS FOR DELIVERING NUCLEIC ACIDS	ZHANG , YILIN
09082614	6124098	150	05/20/1998	RAPID DETECTION OF ANTIBIOTIC RESISTANCE IN MYCOBACTERIUM TUBERCULOSIS	ZHANG , YING

60019208	Not Issued	159	06/06/1996	METHOD OF DIRECTLY INHIBITING LIPID AND GLUCOSE PRODUCTION	ZHANG , YING
08029655	Not Issued	161	03/11/1993	RAPID DETECTION OF ISONIAZID RESISTANCE IN MYCOBACTERIUM TUBERCULOSIS	ZHANG , YING
08459499	5871912	150	06/02/1995	NUCLEIC ACID PROBES SEQUENCES AND METHODS FOR DETECTING MYCOBACTERIUM RESISTANT TO ISONIAZID	ZHANG , YING
08655821	5846718	150	05/31/1996	IDENTIFICATION OF PYRAZINAMIDE-RESISTANT MYCOBACTERIA AND METHODS FOR TREATING MYCOBACTERIAL INFECTIONS	ZHANG , YING
60007022	Not Issued	159	10/06/1995	BIODEGRADATION OF NITROGLYCERIN UNDER AEROBIC CONDITIONS	ZHANG , YING Z.
09340473	6192713	150	06/30/1999	APPARATUS FOR THE MANUFACTURE OF GLASS PREFORMS	ZHANG , YING-HUA
09112657	5980724	150	07/09/1998	METHOD OF ELECTROCHEMICALLY PRODUCING EPOXIDES	ZHANG , YINGCHAO
09112660	5997716	150	07/09/1998	METHOD OF ELECTROCHEMICALLY PRODUCING EPOXIDES	ZHANG , YINGCHAO
09112659	5997715	150	07/09/1998	METHOD OF ELECTROCHEMICALLY PRODUCING EPOXIDES	ZHANG , YINGCHAO
09112658	5972195	150	07/09/1998	METHOD OF ELECTROLYTICALLY PRODUCING EPOXIDES	ZHANG , YINGCHAO
09326033	6294694	150	06/04/1999	MATRIX METALLOPROTEINASE INHIBITORS AND METHOD OF USING SAME	ZHANG , YINGSHENG
09061273	6258570	150	04/17/1998	PCR ASSAY FOR BACTERIAL AND VIRAL MENINGITIS	ZHANG , YINGZE
07333883	Not Issued	161	04/04/1989	DIGITAL HIGH VOLTAGE MEGA-OHM WITH AUTOMATIC MEASUREMENT RANGE SELECTION	ZHANG , YISHENG

09316393	Not Issued	140	05/21/1999	METHODS OF TREATING DIABETES MELLITUS WITH OB POLYPEPTIDES	ZHANG , YIYING

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Application#	Patent#	Status	Date Filed	Title	Inventor Name
07583618	Not Issued	161	09/14/1990	FOR ACYTCLIC TOCOTRIENOL ANALOGS IN THE TREATMENT OF HYPERCHOLESTEROLEMIA AND HYPERLIPIDEMIA	PEARCE , BRADLEY C.
07583907	5217992	150	09/17/1990	TOCOTRIENOLS IN THE TREATMENT OF HYPERCHOLESTEROLEMIA, HYPERLIPIDEMIA AND THROMBOEMBOLIC DISORDERS	PEARCE , BRADLEY C.
08048695	5318993	150	04/16/1993	ANTIHYPERLIPIDEMIC BENZOQUINONES	PEARCE , BRADLEY C.
08048696	5411969	150	04/16/1993	ANTIHYPERLIPIDEMIC/ANTIOXIDANT DIHYDROQUINOLINES	PEARCE , BRADLEY C.
09176359	Not Issued	161	10/21/1998	ANTIMIGRAINE PEPTIDERGIC DERIVATIVES OF INDOLYLALKYL-PYRIDINYL AND PIPERAZINES	PEARCE , BRADLEY C.
07416910	Not Issued	168	10/04/1989	TOCOTRIENOLS IN THE TREATMENT OF HYPERCHOLESTEROLEMIA, HYPERLIPIDEMIA AND THROMBOEMBOLIC DISORDERS	PEARCE , BRADLEY C.
08338719	Not Issued	161	11/14/1994	BENZOPYRAN ANALOGS OF THE TOCOTRIENOLS IN THE TREATMENT OF HYPERCHOLESTEROLEMIA AND HYPERLIPIDEMIA	PEARCE , BRADLEY C.
08405619	5627192	150	03/15/1995	ANTIHYPERLIPIDEMIC/ANTIOXIDANT DIHYDROQUINOLINES	PEARCE , BRADLEY C.
07749778	5204373	150	08/26/1991	FARNESYLATED TETRAHYDRO-NAPHTHALENOLS AS HYPOLIPIDEMIC AGENTS	PEARCE , BRADLEY C.
60002983	Not	159	08/29/1995	CEPHALOSPORIN DERIVATIVES	PEARCE ,

	Issued				BRADLEY C.
08242213	5393776	150	05/13/1994	TOCOTRIENOL ANALOGS IN THE TREATMENT OF HYPERCHOLESTEROLEMIA AND HYPERLIPIDEMIA	PEARCE , BRADLEY C.
08233545	5434154	150	04/26/1994	ANTIMIGRAINE 4-PYRIMIDINYL AND PYRIDINYL DERIVATIVES OF INDOL-3YL-ALKYLPIPERAZINES	PEARCE , BRADLEY C.
08015778	5348974	150	02/10/1993	TOCOTRIENOLS IN THE TREATMENT OF HYPERCHOLESTEROLEMIA, HYPERLIPIDEMIA AND THROMBOEMBOLIC DISORDERS	PEARCE , BRADLEY C.
07995485	5296508	150	12/23/1992	FARNESYLATED TETRAHYDRO-NAPHTHALENOLS AS HYPOLIPIDEMIC AGENTS	PEARCE , BRADLEY C.
07749776	Not Issued	161	08/26/1991	BENZOPYRAN ANALOGS OF THE TOCOTRIENOLS IN THE TREATMENT OF HYPERCHOLESTEROLEMIA AND HYPERLIPIDEMIA	PEARCE , BRADLEY C.
07959592	Not Issued	166	10/13/1992	ANTIMIGRAINE 4-PYRIMIDINYL AND PYRIDINYL DERIVATIES OF INDOL-3YL-ALKYLPIPERAZINES	PEARCE , BRADLEY C.
07890414	Not Issued	161	05/29/1992	ACYCLIC TOCOTRIENOL ANALOGS IN THE TREATMENT OF HYPERCHOLESTEROLEMIA AND HYPERLIPIDEMIA	PEARCE , BRADLEY C.
60069974	Not Issued	159	12/18/1997	ANTIMIGRAINE PEPTIDERGIC DERIVATIVES OF INDOLYLALKYL-PYRINYL AND PYRIMIDINYL PIPERAZINES	PEARCE , BRADLEY C.
08104512	Not Issued	161	08/09/1993	BENZOPYRAN ANALOGS OF THE TOCOTRIENOLS IN THE TREATMENT OF HYPERCHOLESTEROLEMIA AND HYPERLIPIDEMIA	PEARCE , BRADLEY C.
08048717	5391765	150	04/16/1993	CHOLESTEROL LOWERING/ANTIOXIDANT NITROXIDES	PEARCE , BRADLEY C.
08048697	Not Issued	161	04/16/1993	ARYL BIOISOSTERES OF THE FARNESYL/SIDE CHAIN OF TOCOTRIENOL	PEARCE , BRADLEY C.
60104909	Not Issued	159	10/20/1998	CORRUGATED MULTILAYER METAL FOIL PANELS AND METHODS OF MAKING	PEARCE , BRADLEY J.
60235804	Not Issued	020	09/27/2000	BENZIMIDAZOLONE ANTIVIRAL AGENTS	PEARCE, BRADLEY

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60217444	Not Issued	020	07/10/2000	COMPOSITION AND ANTIVIRAL ACTIVITY OF SUBSTITUTED INDOLEOXOACETIC PIPERAZINE DERIVATIVES	PEARCE, BRADLEY C.
09952736	6506738	150	09/14/2001	BENZIMIDAZOLONE ANTIVIRAL AGENTS	PEARCE, BRADLEY C.
60265978	Not Issued	020	02/02/2001	COMPOSITION AND ANTIVIRAL ACTIVITY OF SUBSTITUTED INDOLEOXOACETIC PIPERAZINE DERIVATIVES	PEARCE, BRADLEY C.
10027612	Not Issued	090	12/19/2001	COMPOSITION AND ANTIVIRAL ACTIVITY OF SUBSTITUTED INDOLEOXOACETIC PIPERAZINE DERIVATIVES	PEARCE, BRADLEY C.
60257139	Not Issued	020	12/20/2000	HETEROCYCLIC SUBSTITUTED 2-METHYL-BENZIMIDAZOLE ANTIVIRAL AGENTS	PEARCE, BRADLEY C.
09994012	Not Issued	071	11/16/2001	HETEROCYCLIC SUBSTITUTED 2-METHYL-BENZIMIDAZOLE ANTIVIRAL AGENTS	PEARCE, BRADLEY C.
09888686	Not Issued	161	06/25/2001	COMPOSITION AND ANTIVIRAL ACTIVITY OF SUBSTITUTED INDOLEOXOACETIC PIPERAZINE DERIVATIVES	PEARCE, BRADLEY C.

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Inventor Name Search Result

Your Search was:

Last Name = YIN
First Name = ZHIWEI

Application#	Patent#	Status	Date Filed	Title	Inventor Name
60266183	Not Issued	020	02/02/2001	COMPOSITION AND ANTIVIRAL ACTIVITY OF SUBSTITUTED AZAINDOLEOXOACETIC PIPERAZINE DERIVATIVES	YIN, ZHIWEI
09888686	Not Issued	161	06/25/2001	COMPOSITION AND ANTIVIRAL ACTIVITY OF SUBSTITUTED INDOLEOXOACETIC PIPERAZINE DERIVATIVES	YIN, ZHIWEI
60314406	Not Issued	020	08/23/2001	COMPOSITION AND ANTIVIRAL ACTIVITY OF SUBSTITUTED AZAINDOLEOXOACETIC PIPERAZINE DERIVATIVES	YIN, ZHIWEI
09994012	Not Issued	071	11/16/2001	HETEROCYCLIC SUBSTITUTED 2-METHYL-BENZIMIDAZOLE ANTIVIRAL AGENTS	YIN, ZHIWEI
60383509	Not Issued	020	05/28/2002	INDOLE, AZAINDOLE AND RELATED HETEROCYCLIC 4-ALKENYL PIPERIDINE AMIDES	YIN, ZHIWEI
10214982	Not Issued	020	08/07/2002	COMPOSITION AND ANTIVIRAL ACTIVITY OF SUBSTITUTED AZAINDOLEOXOACETIC PIPERAZINE DERIVATIVES	YIN, ZHIWEI
60257139	Not Issued	020	12/20/2000	HETEROCYCLIC SUBSTITUTED 2-METHYL-BENZIMIDAZOLE ANTIVIRAL AGENTS	YIN, ZHIWEI
10038306	Not Issued	030	01/02/2002	COMPOSITION AND ANTIVIRAL ACTIVITY OF SUBSTITUTED AZAINDOLEOXOACETIC PIPERAZINE DERIVATIVES	YIN, ZHIWEI
10027612	Not Issued	090	12/19/2001	COMPOSITION AND ANTIVIRAL ACTIVITY OF SUBSTITUTED INDOLEOXOACETIC PIPERAZINE DERIVATIVES	YIN, ZHIWEI

10052147	Not Issued	030	01/16/2002	METHOD AND APPARATUS FOR DETECTING PROSODIC PHRASE BREAK IN A TEXT TO SPEECH (TTS) SYSTEM	YING, ZHIWEI
10316708	Not Issued	020	12/11/2002	SIGNED INTEGER LONG DIVISION APPARATUS AND METHODS FOR USE WITH PROCESSORS	YING, ZHIWEI

Inventor Search Completed: No Records to Display.

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Inventor Name Search Result

Your Search was:

Last Name = THURING
First Name = JAN

Application#	Patent#	Status	Date Filed	Title	Inventor Name
09994012	Not Issued	071	11/16/2001	HETEROCYCLIC SUBSTITUTED 2-METHYL-BENZIMIDAZOLE ANTIVIRAL AGENTS	THURING, JAN WILLEM
60339025	Not Issued	020	12/10/2001	SUBSTITUTED 2-METHYL-BENZIMIDAZOLE RESPIRATORY SYNCYTIAL VIRUS ANTIVIRAL AGENTS	THURING, JAN WILLEM
10309505	Not Issued	019	12/04/2002	SUBSTITUTED 2-METHYL-BENZIMIDAZOLE RESPIRATORY SYNCYTIAL VIRUS ANTIVIRAL AGENTS	THURING, JAN WILLEM

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Inventor Name Search Result

Your Search was:

Last Name = YU
First Name = KUO-LONG

Application#	Patent#	Status	Date Filed	Title	Inven Nam
09354958	Not Issued	161	07/16/1999	SUBSTITUTED BENZIMIDAZOLE ANTIVIRAL AGENTS	YU , KUO LON
07650531	Not Issued	161	02/05/1991	USE OF CHIRAL 2-(PHOSPHONOMETHOXY)PROPYL GUANINES AS ANTIVIRAL AGENTS	YU , KUO LON
08306092	Not Issued	164	09/19/1994	RETINOID-LIKE COMPOUNDS	YU , KUO LON
07865570	Not Issued	166	04/09/1992	CHIRAL 2-(PHOSPHONOMETHOXY) PROPYL GUANINES AS ANTIVIRAL AGENTS	YU , KUO LON
60093387	Not Issued	159	07/20/1998	SUBSTITUTED BENZIMIDAZOLE ANTIVIRAL AGENTS	YU , KUO LON
08350851	5696263	150	12/06/1994	ANTIVIRAL ACYCLIC PHOSPHONOMETHOXYALKYLSUBSTITUTED ALKENYL AND ALKYNYL PURINE AND PYRIMIDINE DERIVATIVES	YU , KUO LON
07511690	Not Issued	161	04/20/1990	CHIRAL 2-(PHOSPHONOMETHOXY) PROPYL GUANINES AS ANTIVIRAL AGENTS	YU , KUO LON
08216740	Not Issued	161	03/23/1994	RETINOID-LIKE COMPOUNDS	YU , KUO LON
08643143	Not Issued	161	05/02/1996	RETINOID-LIKE COMPOUNDS	YU , KUO LON
08464186	5648385	150	06/05/1995	RETINOID-LIKE COMPOUNDS	YU , KUO LON
08028733	Not	166	03/08/1993	CHIRAL 2-(PHOSPHONOMETHOXY)	YU ,

	Issued			PROPYL GUANINES AS ANTIVIRAL AGENTS	KUO LON
07801338	Not Issued	161	12/02/1991	USE OF CHIRAL 2-(PHOSPHONOMETHOXY)PROPYL GUANINES AS ANTIVIRAL AGENTS	YU , KUO LON
07777835	Not Issued	166	10/11/1991	ANTIVIRAL ACYCLIC PHOSPHONOMETHOXYALXYLSUBSTITUTED, ALKENYL AND ALKYNYL PURINE AND PYRIMIDINE DERIVATIVES	YU , KUO LON
08643142	5618839	150	05/02/1996	RETINOID-LIKE COMPOUNDS	YU , KUO LON
07513307	Not Issued	168	04/20/1990	USE OF CHIRAL 2-(PHOSPHONOMETHOXY)PROPYL GUANINES AS ANTIVIRAL AGENTS	YU , KUO LON
07711247	Not Issued	161	06/06/1991	CHIRAL 2-(PHOSPHONOMETHOXY) PROPYL GUANINES AS ANTIVIRAL AGENTS	YU , KUO LON
07918507	5302585	150	07/22/1992	USE OF CHIRAL 2-(PHOSPHONOVETHOXY)PROPYL GUANINES AS ANTIVIRAL AGENTS	YU , KUO LON
60263363	Not Issued	020	01/22/2001	IMIDAZOPYRIDINE AND IMIDAZOPYRIMIDINE ANTIVIRAL AGENTS	YU, KUO LON
09840279	6489338	150	04/23/2001	IMIDAZOPYRIDINE AND IMIDAZOPYRIMIDINE ANTIVIRAL AGENTS	YU, KUO LON
60211447	Not Issued	020	06/13/2000	IMIDAZOPYRIDINE AND IMIDAZOPYRIMIDINE ANTIVIRAL AGENTS	YU, KUO LON
60235804	Not Issued	020	09/27/2000	BENZIMIDAZOLONE ANTIVIRAL AGENTS	YU, KUO LON
09952736	6506738	150	09/14/2001	BENZIMIDAZOLONE ANTIVIRAL AGENTS	YU, KUO LON
60327644	Not Issued	020	10/08/2001	TRICYCLIC COMPOUNDS USEFUL FOR MODULATING LXR	YU, KUO LON
09994012	Not Issued	071	11/16/2001	HETEROCYCLIC SUBSTITUTED 2-METHYL-BENZIMIDAZOLE ANTIVIRAL AGENTS	YU, KUO LON
60257139	Not Issued	020	12/20/2000	HETEROCYCLIC SUBSTITUTED 2-METHYL-BENZIMIDAZOLE ANTIVIRAL AGENTS	YU, KUO LON

60339025	Not Issued	020	12/10/2001	SUBSTITUTED 2-METHYL-BENZIMIDAZOLE RESPIRATORY SYNCYTIAL VIRUS ANTIVIRAL AGENTS	YU, KUO LON
10309505	Not Issued	019	12/04/2002	SUBSTITUTED 2-METHYL-BENZIMIDAZOLE RESPIRATORY SYNCYTIAL VIRUS ANTIVIRAL AGENTS	YU, KUO LON
10289829	Not Issued	020	11/07/2002	SUBSTITUTED BENZIMIDAZOLE ANTIVIRAL AGENTS	YU, KUO LON

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Inventor Name Search Result

Your Search was:

Last Name = CIVIELLO
First Name = RITA

Application#	Patent#	Status	Date Filed	Title	Inventor Name
09354958	Not Issued	161	07/16/1999	SUBSTITUTED BENZIMIDAZOLE ANTIVIRAL AGENTS	CIVIELLO , RITA LEE
60093387	Not Issued	159	07/20/1998	SUBSTITUTED BENZIMIDAZOLE ANTIVIRAL AGENTS	CIVIELLO , RITA LEE
60235804	Not Issued	020	09/27/2000	BENZIMIDAZOLONE ANTIVIRAL AGENTS	CIVIELLO, RITA
09952736	6506738	150	09/14/2001	BENZIMIDAZOLONE ANTIVIRAL AGENTS	CIVIELLO, RITA
60413534	Not Issued	020	09/25/2002	ANTI-MIGRAINE UREIDOAMIDES	CIVIELLO, RITA
60263363	Not Issued	020	01/22/2001	IMIDAZOPYRIDINE AND IMIDAZOPYRIMIDINE ANTIVIRAL AGENTS	CIVIELLO, RITA L.
09994012	Not Issued	071	11/16/2001	HETEROCYCLIC SUBSTITUTED 2-METHYL-BENZIMIDAZOLE ANTIVIRAL AGENTS	CIVIELLO, RITA L.
10309505	Not Issued	019	12/04/2002	SUBSTITUTED 2-METHYL-BENZIMIDAZOLE RESPIRATORY SYNCYTIAL VIRUS ANTIVIRAL AGENTS	CIVIELLO, RITA L.
60339025	Not Issued	020	12/10/2001	SUBSTITUTED 2-METHYL-BENZIMIDAZOLE RESPIRATORY SYNCYTIAL VIRUS ANTIVIRAL AGENTS	CIVIELLO, RITA L.
60257139	Not Issued	020	12/20/2000	HETEROCYCLIC SUBSTITUTED 2-METHYL-BENZIMIDAZOLE ANTIVIRAL AGENTS	CIVIELLO, RITA L.
09840279	6489338	150	04/23/2001	IMIDAZOPYRIDINE AND IMIDAZOPYRIMIDINE	CIVIELLO, RITA L.

				ANTIVIRAL AGENTS	
60211447	Not Issued	020	06/13/2000	IMIDAZOPYRIDINE AND IMIDAZOPYRIMIDINE ANTIVIRAL AGENTS	CIVIELLO, RITA L.
10289829	Not Issued	020	11/07/2002	SUBSTITUTED BENZIMIDAZOLE ANTIVIRAL AGENTS	CIVIELLO, RITA LEE

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Inventor Name Search Result

Your Search was:

Last Name = COMBRINK
First Name = KEITH

Application#	Patent#	Status	Date Filed	Title	Inventor Name
07959592	Not Issued	166	10/13/1992	ANTIMIGRAINE 4-PYRIMIDINYL AND PYRIDINYL DERIVATIES OF INDOL-3YL-ALKYLPIPERAZINES	COMBRINK , KEITH D.
08233545	5434154	150	04/26/1994	ANTIMIGRAINE 4-PYRIMIDINYL AND PYRIDINYL DERIVATIVES OF INDOL-3YL-ALKYLPIPERAZINES	COMBRINK , KEITH D.
60235804	Not Issued	020	09/27/2000	BENZIMIDAZOLONE ANTIVIRAL AGENTS	COMBRINK, KEITH
09952736	6506738	150	09/14/2001	BENZIMIDAZOLONE ANTIVIRAL AGENTS	COMBRINK, KEITH
60339025	Not Issued	020	12/10/2001	SUBSTITUTED 2-METHYL-BENZIMIDAZOLE RESPIRATORY SYNCYTIAL VIRUS ANTIVIRAL AGENTS	COMBRINK, KEITH
10309505	Not Issued	019	12/04/2002	SUBSTITUTED 2-METHYL-BENZIMIDAZOLE RESPIRATORY SYNCYTIAL VIRUS ANTIVIRAL AGENTS	COMBRINK, KEITH
60263363	Not Issued	020	01/22/2001	IMIDAZOPYRIDINE AND IMIDAZOPYRIMIDINE ANTIVIRAL AGENTS	COMBRINK, KEITH D.
09994012	Not Issued	071	11/16/2001	HETEROCYCLIC SUBSTITUTED 2-METHYL-BENZIMIDAZOLE ANTIVIRAL AGENTS	COMBRINK, KEITH D.
60257139	Not Issued	020	12/20/2000	HETEROCYCLIC SUBSTITUTED 2-METHYL-BENZIMIDAZOLE ANTIVIRAL AGENTS	COMBRINK, KEITH D.

09840279	6489338	150	04/23/2001	IMIDAZOPYRIDINE AND IMIDAZOPYRIMIDINE ANTIVIRAL AGENTS	COMBRINK, KEITH D.
60211447	Not Issued	020	06/13/2000	IMIDAZOPYRIDINE AND IMIDAZOPYRIMIDINE ANTIVIRAL AGENTS	COMBRINK, KEITH D.

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Inventor Name Search Result

Your Search was:

Last Name = GULGEZE
First Name = HATICE

Application#	Patent#	Status	Date Filed	Title	Inventor Name
60211447	Not Issued	020	06/13/2000	IMIDAZOPYRIDINE AND IMIDAZOPYRIMIDINE ANTIVIRAL AGENTS	GULGEZE, HATICE B.
60263363	Not Issued	020	01/22/2001	IMIDAZOPYRIDINE AND IMIDAZOPYRIMIDINE ANTIVIRAL AGENTS	GULGEZE, HATICE BELGIN
60235804	Not Issued	020	09/27/2000	BENZIMIDAZOLONE ANTIVIRAL AGENTS	GULGEZE, HATICE BELGIN
09994012	Not Issued	071	11/16/2001	HETEROCYCLIC SUBSTITUTED 2-METHYL-BENZIMIDAZOLE ANTIVIRAL AGENTS	GULGEZE, HATICE BELGIN
60257139	Not Issued	020	12/20/2000	HETEROCYCLIC SUBSTITUTED 2-METHYL-BENZIMIDAZOLE ANTIVIRAL AGENTS	GULGEZE, HATICE BELGIN
09952736	6506738	150	09/14/2001	BENZIMIDAZOLONE ANTIVIRAL AGENTS	GULGEZE, HATICE BELGIN
09840279	6489338	150	04/23/2001	IMIDAZOPYRIDINE AND IMIDAZOPYRIMIDINE ANTIVIRAL AGENTS	GULGEZE, HATICE BELGIN

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